

It's still a "Man Bites Dog" story when a CIO is promoted to CEO, but more CIOs are making the leap. Here's how to prepare for the corner office and what to do when you get there. Page 27

#### Counties Work to Hide Data to contain neuronal data and were reducted.

Records pulled offline: info blacked out On Oct. 10 the Orange County comptroller's office in Florida completed an I8-month project to remove sensitive personal information from images of official public records posted on its Web site.

The \$750,000 effort involved a review of over 30 million pages in more than 12 million documents to look for data such as Social Security, bank account and credit and dehit card numbers. In the end. 777.635 pages - 2.6% of the

Modelea III and to a find a fall fall of the land 9234945/CB/78 CH299651 UNI

PERTUDITION S PO ROX 1346 NAN MESOR HE 48196-1346

"There's going to be some thing we missed," acknowledged Carol Forlesons, the county's assistant comptroller "But I think we got 99%" of the items that needed to be

total reviewed - were found

Orange County's efforts are being replicated in dozens of counties nationwide as local governments scramble to pull documents from their Web sites or black out personal data

from images of title deeds, tax liens, court papers and other public records. As reported by Compa world earlier this year, such County Data, page 37

Software Blamed for Voting Woes Report says design flaws, lack of tests on new app led to delays in Denver

architecture and construc-

Poor software design and a lack of testing on a critical analication were the main course of hours-lone voting delays in Denver last

month, according to a scathing report written by outside consultants. The 32-page report.

dated Dec. 8 and released by city officials last week, also detailed a series of IT management deficiencies at the Denver Election Commission. But it pointed the finger primarily at a new electronic poll book application developed for the DEC by Sequoia Voting Systems Inc. The report blasted Seguoia

for "decidedly subprofession

time" much on the affell Back

"The effolished is a nearly designed and fundesigned and funapplication that demonstrates little familiarity with basic tenets of Web development consultants Fred Hes-

sler and Matt Smith wrote Header and Smith work in the Greenwood Village Colo., office of Fuitsu Consu ing, which was hired by the DEC to find out what went

wrong on Election Day. The poll book software in chales names addresses and other information on all the Denver Vote, nove 14

Wireless LANs

Reach Round 2



IBM.

Mil. (by Mil ligh, Lann, News and Dambry per repeated systematic or technologies (Mills by Miles by Department, Gir Quint



#### INFRASTRUCTURE LOG

OK who set on my lunch?

\_DAY 44: This lack of productivity is out af control.

No one is getting anything done. What we're using isn't
working. Gil's had enough. He moved everyone into one
cubicle. A "Collaboration" cubicle.

Jote to self: collaborating means showers are a must. ADY 46: I'm going with IRM Lotus' Notes' and Domino' Instead. It's for more than e-muil; it's an open platform designed for collaboration. It has proven security returnes and it's packed with productivity membraners features and it's packed with productivity membraners sealy to deploy, and it's flexible erough to integrate cross multiple platforms, including IRE' and Linear forces multiple platforms, including IRE' and Linear to seal the seal of the seal of the seal of the seal of the platforms including IRE' and Linear to seal the seal of seal of the seal of seal of

Download the Lotus Notes & Domino demo at:
IRM COM/TAKERACKCONTROL/COLLABORATION

# 12.18.06

#### Application Overload

Application over load

- the Technology section: Excess software — redundant andications unused modules in large mites and plain old shelfware — can eat up a bie portion of your IT budget Harmon for a service for postular or your 11 backet. tors on a diet Page 19



in the Management section: Like any field. IT was a second by the second second second that you innote at your peril. But there are times when it makes sense to fly in the face times when it makes se

#### **NFWS**

# Wireless I ANs: Round 2 sburch Medical Center, are

GA health insurance trade assoagreed to support standards for creating and managing electronic personal health records

Nobal Dispatches: Regulators 26 Global Dispatches: Regussor.
In Japan, South Korea, the U.S. and Europe are probing possible anticompetitive behavior by makers of flat-namel LCD displays.

14 A \$25 million PeopleSoft ERP project in Palm Beach County, Fla., is plagued with glitches that have caused payroll problems for a significant number of school district employees

37 The Hery/Harine Corps In-tranet project has failed to meet users' needs even though \$3.7 billion has been spent on it during the past six years, according to a GAO report.

## TECHNOLOGY

21 RFID: A Ticket to Ride. Zipcar "Zincards" to rent vehicles by the hour or day Zincar, which exeatly simplifies the costomer experisamplines the customer experithe 2006 Commuterworld Honors



Antivirus software is mathing a vulnerability as it should but Mathias Thurman monders who this worm bears wriggling in every day.

## MANAGEMENT



lean NES Rentals CEO Andrew Studdert and three others who made the transition illustrate how to prepare for the top job and what to do when you get it.

30 Career Watch. Employers' picks for the best ways to advance your career; certs that don't pay like they used to: H-IB visas Australian-style: and career advice from a Premier 100 FT leader

## **OPINIONS**

16 Den Term

On the Mark: Mark Hall talks to nower consumption and cooling problems of networking year are being ignored

against misinter pretine Microsoft VP lim Allehin's neo-Mac rant of



three years aro. 16 Bavid Moschella contemplates

deet in IT today. 25 Mark Wilesphby says security breaches haven't triggered a flood of hisbility lawrents because data leaks don't make good class-

cation mits 32 Bart Perkins Thinks audits and

other assessments thouldn't be dreaded Instead, they should he embraced as onportunities to resevaluate direction, change strategy and enter

30 Frankly Speaking: Frank Hayes 30 listens in as Santa and an elf discuss what the turnous of technology should get this year.

DEPARTMENTS/RESOURCES At Deading Briefs News Books

IT Careers Company Index How to Contact CW

IOFTWARE: Four experts go head-to-head (-to-read-to-head) to defend their Web however

How Mirrored Fights Off

100 000 Attacks Per Month NETWORKING: Here's what the company d to protect itself from the coptin slaught of probes and intrusion attempts.

Lifetouch Gets It Right On Kids' Privacy MANAGEMENT: Jay Cline tal

ony, which safeg information while making it mornation what making a ratier for officials to use its

data to track down lost chi



THERASTRICTURE LOG

\_DAY 27: These compliance regulations are killing us! Audits. Inconsistencies. Processes. Time. Money. I feel like I'm being chased by regulators.

\_Oh, wait. I am being chosed by regulaturs. Run!!!!!
\_MY 28: I've got it: IBM Tivoli middleware. It automotes
system administration to standardize compliance
policies. I've anticolism processes to minimize the

policies. It centralizes processes to minimize the headaches of new and ever-changing regulations. And it helps pinpoint security issues before they become problems and maintains business integrity.

Gil is humand we had to ditch the high-corb diet

IBM.

Tivoli

Better manage the business of I.T. at:
IBM.COM/TAKEBACKCONTROL/COMPLIANCE

Manager and the state of the st

Lawmaners Asa n To Evoluin Trades Two U.S. congressmen have space Howton-Packard Co. CEU Mark Hurd to explain why he sold same retrie to expense why be so \$1.37 million worth of HP stock ber. In a letter, Reps. John Dine

and Mark Stepak, both Michigan Democrate called on Mart to icraits, cased on mare to en een proces som by DAC. i. Probabler knownt filed heet th also questioned the first of Hard's trade, along with trad by person other HP executives.

orker Sentenced for enting Logic Bomb or Darwie, a former USS Ather employee, was

ed to eight years in pric ling a "logic bomb" on polymeris to force a deand stable after the tack, and Deronio lost more as \$23,000. He had planted inen code jeto about 1.000

Rhie Cross opeters that began deleti network said that all 30 Phon Cross and Blue P. Microsoft Sic Chiefd olses in the U.S. are

sies. They said the collecthat will be marketed to 20,000

adge Delays Law to Track Drug Products A federal ledge has becomed a cre-

lody for drug products by uning 10 tags or other tech

# MEADURE Insurance Firms Agree to Back E-health Standards

To create personal e-health records for 200M clients

TRADE association representing almost representating minore nanies with 200 mil-

hon customers announced last non customers announced as have agreed to support a common set of standards for creating and managing electronic ing and managing electi America's Health Insue ance Diana (AHIP) compiled the standards with its largest

momber, the Blue Cross and Rive Shield Association Scott Serota president and CEO of the Chicago-based

aiming to offor standards based personal health records (PHR) to their 98 million clients by the end of 2008

PHRs allow individuals to manage and view their own health information "Health plans have existing

relationships with patients and providers and we can belo ensure widespread adoption and use fof PHRs) nationally Serota said. "We need to have a seamless, interoperable nationwide system that will serve all members." He said 13 of the Blue Cross plans have PHRs in place, and

The standards to be used by the insurers were gathered from the federal Health Insurance Portability and Accountability Act, the American National Standards Institute

can Health Information Comcan Heart Information Comanid The concessors allows companies to add unique featurns to the standards-based

DUDe officials said Claims Data to Play Role Karen Ignagni, president ington said the companies will use insurance claims data to populate the PHRs The claims data "can help nations record their experi ences," she explained, "It'l al-

lows test and lab fresults to be contured in a secure Web-based environment Bee Williams sheirman president and CEO of Acres Inc. likened the effort to the development of common stan-

dands created by the banking industry for the ATM system The Heatford Coon beard urer will begin offering PUPs based on the standards

Describers in February 1991 liams said During the second CONTRACTOR OF BANK quarter or nex pany expects to offer personal alastania a

cords to all of 100 The Astron PHIP system will include -- ---engine that --- (18

compare patient treatment to best-practices midelines and alert nationts and physicians if they are not following the sugcontrol propositions Williams

He said that Astro will not use data accumulated in the PHPs for insurance underwriting or risk explosition Bill Marino, president and CFO of Horizon Rive Cross Blue Shield of New Jersey said

that his plan's first-generathat his plan's first-generation Prik system, which was he replaced early part was by ne repuaced earry next year by a statutardroused conton 110 million clients he said

Marino said the com already provides radio freaureacy provides ratio frechine that can be econned on the with data contained in the PHPs of chronically ill nationer in some areas of the state

Health care officials said the electronic personal records are increasingly viewed as a ments and an Ambient test ing medical errors and other enical errors and of higher health own course The natient-controlled data allows consumers to share the data store with health care providers rather than depend on fragmented basith history data maintained by multiple physicians and hospitals.

Liz Booken an anabat a Forrester Research Inc., said the agreement will allow workere to take their bealth data with them when they change iohs but noted that it doesn't address privacy issues.



THERACTORY THRE LOC

\_DAY 33: Our information is siloed. Unmanageable. People can't access the latest infa to make decisions. Gil's resorted to giving everyone access to everything

\_Monitors now outnumber humans 18 to 1.

\_DAY 36: It's clear to me. We need an IBM Information On Demand middlewore solution. Info will be liberated from the silos—available when we need it, whatever the format. Accurate and in context. Now we can make swarter decisions and deliver real business value.

Access is a beoutiful thing.

IBM.

Information Management

See innovative IBM Info Management solutions in action:
IBM COM/TAKEBACKCONTROL/INFO

History to the laye on represed terrements of investment theorem blocks on Cymposius in the Columb States and by clear presents. CEMM State Congression, All agrees received.

#### stallers Fined for al Software Lies a Sheliman by and Corp. have paid fines to

econsed someore use. al cooles of software from ernet Secure, o,... \*\*-a loc. and Sym e sec. and Symantec Co sten paid \$300,000 to:

#### d Corp. and Madde neaft lesues 7 curity Undeter

pdates this month, putch Media Format and the on. The settlem set including two in the Win-Media Player software. The ry had alasmed to release ats passesses on two re-to. But it added a W la Format undate after re-

#### is of attacks on the softwar an Plans to

as Me's CEN un is refiring as o re vice president and chie social officer at Herelettor, capping 37 years of the v. Warman, St. will be "holistically" by taking into or and senior vice pres account the network devices man was interim CEO

#### after the frience Carty Floring. naress Passes I To Ben Pretexting

The U.S. Congress has passed in sin a person's shone records n Act was not

# C ON THE MARK

HOT TECHNOLOGY TREMDS HEW DOGGLICT HEWE AND INDUSTRY BUTT BY MARK HALL



# **Blades Get the** Blame, but . . .

created by

a neoblem as blades."

Mehta sar-

you won't need if you install a

rack of blades. Plus, he points

out that chip makers are now

being guided by performance.

per-watt metrics that should

belo reduce the energy con-

blade vendors such as his

advances in board design.

sumption of computers while

such as the elimination of net-

work interface chips, that are

also expected to result in low-

er power and heat liabilities.

Networking companies don't

seem to be under the same

market pressure, and Mehta

greate looking

at the problem

they aren't the only data center near spiking terms and anomy hills. Vikram Mehta, CFO of Blade Network Technologies Inc. in Santa Clara Calif. thinks it's not quite fair for blade servers to catch all the heat in the

#### struggle to keep a lid on the rising Fahrenheit in data centers. "Is anyone looking at the power consumed Intel nacks its

and the heat processors ... network pear?" with cool canabilities. he asks aron-Moore's Law continues to get ing that is "is a workout from computing's inst as big of ranacious performance demands But with micronro-

cessor makers doubling the number of transistors in chips might worder "Well was have the horsepower and you have the real estate — what are you going to do with it?" lava geniuses? Microsoft me Those are the words of Greevels? Network know-it-alls? ory Bryant, vice president and seneral manager of Intel

Corp.'s distital office platform

division. Bryant says Intel is already well alone a path toward company pext year will unveil shifting to its processors functions that were once



core after thin set almosts core virto chip set aiready ment functions that were

once the purview of software once the purview of software a computer off the network to for problems, then rebooting is belowing is back online and at oranging a pack comme and supporting the events to a man half of pext year. Bryant save Total will associates are more functions onto vPm adding introvior presention technology and swalkering un keeboard display and network tasks that now you constitution and about the Those advances will also help lower the energy needs of contemp be corn And that will be pretty cool too

#### Go to the head of the class and . . .

out a income on word IT comes Manager I Industrial in Court Iordan Litah won't be un odds on forceits in any hour names this caseon. But it issue might put the odds in favor of its grads getting IT jobs. esnecially given that the accredited university only hands out undergrad diplomas in computer science. College presideet and confounder Graham Doney says that before the forprofit school was launched in 2004, be spent a lot of time talking with IT managers and software vendors to learn what skills they wanted from newly minted IT workers

None Dovey relates that the

project as well as develop-

top two talents sought were the ability to collaborate and communication skills As a result. Neumont's curriculum deviates mightily from that of most colleges. For one thing school begins at 8 a.m. and ends at 5 n.m. Plus, students work in teams from Day One Doney says, And classes revolve around real work, he adds, pointing to Neumont's PHP letView open-source



that have ham de for the likes of Novell Inc. and Missessell Corn Given the daily close

and and the standards on death in eight quarters Currently in eight quarters. Currently, proper age is 34 Dones shripes that 86 Neumont grads enwith two job offers aniece and an average starting salary dispensionant is not begin more women in the program Thirtion is \$9,000 per quarter. In 2007, Neumont hopes to set accredited for a moster's in computer science

## Hammer-and-nail

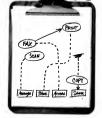
. less paper with West Architects, builders and con tractors are sweek in \*tone and tone and tone of name being moved around" during construction projects, says Kevin Wandryk, a senior director at Autodesk Inc. in San Pafeal Calif But Windows Vista includes support for Autodesk's

Design Web Format os a native file type, Acconding to Wandryk, that

means Viete users will he shie to

view Autodesk files whether they're running the compo my's some or not. He saws which uitous DWF file viewing will greatly improve a project's workflow by eliminating the need for a lot of paper exchanges. And in reciprocal mode Autodesk will start supporting Microsoft's XML Paper Specification docume format as a standard in its Design Review software in Ol of 2007.

# TEAM PLAYER





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# Wireless LANs Reach Round 2

New technologies create potential to expand network uses cost security concerns may slow some ungrades interest in marking WI AMs

home errown in the m nicise work for minimum and management ver of installations and said Curt Smith RP's director technology maturity - to the of application technologies. mint that many IT means ers now expect to expand the more of their networks in a and of their fierest

TIPELESSIAN.

ft's a lot

of hard

them toward on the next west or two Expension plans ware change include providing usand not some ore with circuits anthr thing we're fired ers wan signincantly un ahout via the proposed 907 He standard and Apploying dual mode

ohones that support both voice-over Wi.Si and cellular calls, according to Calls, according to managers who run WI ANs at companies, medical facilities

and universities But not everyone is ready to take the plunge. Some of the IT managers said hardware upgrade costs and lineering concerns about wireless security will put a damper on the addition of features to their WLANs, And several analysis and and doubte about

how quickly large companies will adopt 802.11n, dual-mode phones and other uncoming wireless innovations Pushing Ahead RP PLC is among the compo-

nies looking to push ahead with wireless technology. An estimated 50 000 office workers at BP already have WLAN access. Now the London-based petroleum company plans a "second round" of projects. including the addition of sepo rate wireless access support

DO is also undersaking a major wireless expansion at its refineries production facilities and offshore deilling platforms Smith said Thus for the company is expected to catify \$02 Up. has installed wise in captured to rathly boards less scores points project timeline page on the in two of 14 referen DEED's Web site

in and it is stead ine to deploy mo. hile Wi-Ei hot enote on 600 terrale mond he workers who service pipelines. In addition BD In addition, in two tests of WiMay technol-

our next year, probably at a refinery and a large oil field. Smith said WiMay is synert. ed to provide throughout of up to 15Mbit/sec. on mobile deplayments and 40Mhit/sec for fixed or portable applications. and it doesn't require end-user Acotomor boson allowed to and ciebt to a base station

BP hopes the technology could provide a less expensive alternative to installing more wireless access points. Smith said. He noted that access points can cost \$5,000 ppince a steep price given the complexities of installations at industrial sites, where up to 100 of the devices may be required

to get suitable coverage now. Wireless quality of service and security standards that were adopted last year have begun to give IT managers more confidence about the technology, beloing to drive

into new areas Another highly sought-after standard is 807 the which could inor SUZ 1111, WINCH COLOR III un to 200Mbit/see as about four times what is possible none The Institute of Floorei and and Elementary Control

WI ANs are "growing and nenerossine fairly rapidly\* making it Septembely impos tant" for users to have screen to the performance promised by 802 Ha said Brad Sands lead network engineer at the Park Hill School District in

whereas dual-mode phones wildless dear-times provide Parkville Mo Sandt said that over the WI AN when workers because WLANs are shared were within its range and then networks adding more users convert to perular cellular ser-

results in slower throughout results in slower throughput is greatly welcomed." Bur Dark Hill just installed a WLAN based on the cur-

that uncertains the network which has 716 second moints to 902 He would cost too much too soon for the school district Comb cold by to about only ing forward to installing dualmade union technology that supports both wireless and celhalar calls. Most of Dark Hill's administration exaffees have to carry two or three devices to etay connected now be said

a w CAT the technology in

Assessed Sandt said he warries

made by Motorola Inc Chris Nowak the distributor's IT

.... Complete secondary. Scamiess communication installations is one of the mode

of a \$200 million automate and variance project that the Univergence project that the Uni Contract of the contract of the contract of As part of the project

LIPMC plane to project. and handout to up to 2 100 workers said Bill Hanna the medical center's pice provident of IT infrastructure 11PMC operates 19 hospitals

and about 400 doctors' of San and other outsetiest sites Honno soid the dual-mode combilities should help doctown and reserve or their moun between buildings since celhalar service ion't abrany offertive in the mountainous region they could use cellular connections in areas where the health care provider didn't have WirEi links he said As not of a technology trial about 50 workers at Anthon Marana Co. a fruit and produne distributor in Chicago for the past 18 months have here using deal-mode photos

director said the phones have recovided "substantial productivity gains" by letting users rosen throughout the company's WLAN-equipped warehouse and continue talk-

## Wireless Becomes Big LAN on Campus

MUCH OF the pressure to expend the uses of wireless I Allis is coming from concurrency who have come untowed to using free Wi-Fi hot ols, especially college students to want access to technology as er move from their dormitories to

No house to home W.E. on a versity, or the students comn," said Roger Daniel, directo of network infrastructure at North Carolina Central University. To supas installed about 300 wireless ers could indepen and explor

partly from [uners of] the new gad-cets - the Palms and Pocket PCs and more " Daniel said In addition, the university is us its Wi-Fi network to pump video feeds to and users and to receive one from security common that are located in remote areas where

it would be arousus to run wired ng voice over Wi-Fi and that

a mode handsets likely will come a technology that were tion within the next two "We sit in Research Tre Park, with Date, Chapel Hill and

District (ACCCI), a corrup of the col

es in Sen Antonio, has depic 477 access points to serve about 50,000 students and 6,000 staff members, sold Arme Southass, the long forward. "the WLAN will be ident infrastructure in all ACCO

os." Seuntrum said. He added that he expects rowth" in the number of wireless users over the next two years and that the district overheatly will sup-port dual-reads phones. We see Wi-fi voice as a collatoral ben

- MATT HAMRI FM

they an outside to examine a delivery truck.

Manual took fully and afford with the current designed abanca though He said half phones, mough, rie said ne a better director and is less a better display and is less expensive so in count give story this rose)

ory, trus pages. Meteorolo is morbine on a new dual-mode handset for mere such as Mareno customers such as Marano, product management at the product indiagement at the wondor's enterorise mobility solutions group. But, he added Managed has been ad from trials at Marano and other rites that most workers don't need duel made conshillities and would prefer handbelds pporting data and voice for W/I AN use only

At least a dozen dual-mode nones have been introduced he condoes But the his most tion for notential users is how to provide accurity for handoffs from W/I & No to cellular and back again, especially when mublic WisEi hot speed are involved, analysts said. The Boeine Co. is a case

in point. The sincest makes bee made o major commitment to WI AN Inchesion for more than four more and currently has about 3,000 access points installed in plants and offices in 48 states, said Allen Ballinger, senior manager of distributed networks interration at Boeing The highest concentrations of access points are on manufacturing floors, where

orical. Ballinger said. But Cliff Naughton, Boeing's director of network services. said the company is "very security-conscious" which governs how it will extend the uses of its WLANs. With dual-mode phones, a wireless carrier would have to support roaming onto corporate networks and vice versa, which is "extremely complicated. Naughton said. "It gets kind of operous. We will not be field-

ing production applications

pulling Ethernet cable into

cramped locations would be



until one feel comfident \* In the near term, adding union over WisFi by itself "is more wishle " said Door Hill shirt natural architect and an associate technical followat Boeing, Even so, he added. some strict rules will need to he semlied to keen waice qualhe applied to keep voice quality blab accordable with no many WLAN users. He also cited concerns that transmis

sions from radio framanco identification taes on a sens rate network might intoufare with Willi mice calls. As for expanding window handwidth with 802.11n. Hill said Boe-

ing isn't interested in installing thousands of new access points until well after 2006. "It's a lot of hardware change, and not something we're fired up about," he said.

Nanobton said Boeing has talked with vendors about where it might be able to take adventage of WiMay and ZigBee, an emerging wireless technology for monitoring and

controlling the temperature lighting and security of buildines. But be said it likely will he "quite a long time" before Boeing is interested in putting ZigBee-based capabilities into buildings, partly because the company is consolidating its manufacturing and office space, not expanding it.

Paul DeBeasi, a Burton Group analyst in Milford

Mass, said that with the ad-

standards being developed for functions such as recening and relations against rouning and Wireless the work than agence medicable and high perforprediction and inglisperson mance. It's nate to recease, will be adopted by users be

Garrner Inc. analyst Philis Redman predicted that 802.110 widely installed until 2012. even if the IEEE meets its cur even if the rece meets to co

added.

the serious to appro And Bob Ferm on analyse at TownerCours in Mondham Man and be thinks some rity concerns will continue to haunt Wi-Ei networks and limit their growth, particular larly amone large companies WI ANd how had a were home. driven ramp-up in horses hos spots and municipal networks. and only certain parts of the

business " Econ sald

At some companies, WLANs have become so communicate that many workers never need to use wired connections and more for example short 5000 markets at land Com's longe Farm office campus pear Portland One releases WI AN "for mission orbital user and use it as their primary petwork," said

Being Tucker Intel's mobile marketing manager. "The maiority do fine on wireless."

Not a Full Replacement Intel is working with Cisco Systems Inc. to promote nextconservation uses for WI ANs and the chip maker has announced plans to release a Centrino mobile chip with 802.110 support in the first half of 2007, without waiting for the IEEE to moreove the

But Tacker acknowledged that WI ANs are "not a replacement for Ethernet across all users." He cited large num ber-crunching applications as one area where wireless networks fall short

Roger Duniel, director of network infrastructure at North Carolina Central University in Durham, said the school uses a large wireless mesh network for applications make a summission of description Such as transmitting vineo starting to test union over Wi-Fi (see story, page 10).

Por Duniel said "Wi-S: will never replace our wired LAN, and we to taking Organic Extror more marchite over wire. or more megaous over wireby comparison " Wi-Fi's primary value he added is that it neovides "senstime econor" to data and serves at "a cost-

effective way of extending the \* \* \*I to the years ! Money of Waleshield Goalsh to Manadada in Rabido M.C. could benefit from having deal. mode phones which would be continue to come then the name eason to carry than the sepaand callular phones now used

he about 500 medical modern or account your medical worker network services at WakeMed etwork services at wasen DEID tom to have touch of medical environment and trans mit the data repersed by the

tone wie hie Wi Ei metwork But the dual-mode and REID technologier are just with list inema for now he said &

and in the b

#### **Dual-Mode Phones Nourish** and Distributor's Sales

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which was an included a first contract construct

Asian Vendors Forming

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Domorobin Semicombatter Corn

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A service WAM factories in Taiwan coor

The transferred and a side of the second on

or an July or 45110 billion U.S. bin a joint

The other three factories will also

The state of the s

DRAM Joint Venture

not States shows! Kay Grown Pre-

COMPUTERUNDS D MUST BALL

the next live next

# GIORAL DISPATCHES

#### An International II Very Dieest

#### Regulatore Cast Wide Net in I CD Drohee

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int a fin shots to the law to the color bounds old Luc Marcha that it had been subnan -- I am Day Who mound your on the 1. S. South Korey and Japan, A.d.a. hand made comit or discharge while the sent to an in the decision and M.

that private in creater to hu Tans un both a sid the halfbar anticted by the Linux Fair Trade ( community in the

and the state of the black Obbyśrznany Caro m topiocice from extent a U.S. coloreda as hed become contacted by the DBB The Europe in Lammin on continued that it has by an a similar probe.

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the uncorrections content on possible ner of the real of then film to see it too to the continue of the continu many manufaces. Language Pt a cold phones and list dimerical near ■ MAD TANK WHITE LAND AND DATE MET TO COUNTY THE COUNTY

# Military CIO Confirms

IT Support Problems

BERRA, AUSTRALIA vice marshal for Australia's Dea face date of the control of the contest levels, during a hearing held but mounth by the America in Secretaria honorary Affaire Datamas on LTea by Committees As the horses

Montrobon was solved to invest a total of 457 billion New Tric otherhor there at a - b - bloo at a more contract which will be seen a continu support romasts and early next year in a DB AM plant that of the naments more Donor, has had absende at articl building taking up to a month in the city of Taichung. to process earlier this year Ha contirmed be built in Turbure and size the jaint the hardsharman stantage a combined manufacturing to but said it had been paces of about 240,000 silicon waters notwork to about 5 000 ner month ■ CANAMASTED TITLE NEWS SERVICE naments almost her som port problems were

a soint venture combining its - the U.S. arm of the ontert-Assumptions of the method naios notas sales unit - chank! unit with the one of Siemens. wrutining the company's busi-The maint commune to be surman conservate to much as the rosed to begin operations in

new technology itself, "You Lineary Nokia said it now exknow where Siemens is trylin much the Lumeh to take place but I total in the o to three wears." said Allan Sulkin, an analyst at sect to a further agreement on TFOConsult Group in Hackthe results and consequences But America

Mideast Edu-

affined his man-bession rolans Bill Crass communica tions monager at bicycle maker Shimano Inc. in tryine, Calif., said he will proceed with a test of the new OpenState phones Crane added that he isn't worried about the managing off out conducted the Stemens unit could have on

Briefly Noted

said attendance at ITU room World 2005 in Hong K this month totaled 49,210 - tar lower than in previous years. But and that the sendences was the noted that the conference was the They also said the event met the (TIPs foresent of between 42 000 and 67 000 attendance

SUMMER I FMON INGNEWS SERVICE in Maurenan Netherlands fast week

brought out a packaged storage area network offering aimed at area network ottering aimee at iali and midsize businesses ndla includes PAID eterace nes made by Euliten S tohar from Brocada Co ns Systems Inc. and heat hus oters from Erector Corn. Dries - HANCY COLUMN TO ME WE OF DRAFT

COLUMN Separate sale of its to ternet access business in the II K to London based The Carphone Warehouse Group PLC was soon Dac S by the Furneren C on to the II K deal A<sup>ou</sup> has sold off its leterant access unit in France and accept to sell its bank ness in Cormony because of deci-BOWN MELLED FIGHEWS SEDVICE

> said he would the more concorned about the sturidity of

the reach involved than its im-

### detailed by Computer. Compiled by Mike Bucken Selloff Plans, Fraud Probe Put Spotlight on Siemens

Instruct removes of calculline of he I too phone: her sesseral analysts warmed LL manages to be continue busone best many in strong common to Summers Atamas will off its enterprise networking unit

In addition, the networking unst could be taunted by an unevens a reminal investigation onto alleged fraud and bribers involving employees at the communication of telephonomerous tions network upon tion in Germany, The workers may have skimmed more than U.S.) from Siemens since 1990.

according to company officials and German authorities Etllout from the probe con

of an internal review planned hi Sicmens The enterprise and telecommunications network units at Siemens are part of the same operating group, although they were split into separate subsidiaries Oct. Las part of an effort to find burers or

Liver in the first quarter, sub-

et totaled an estimated

5102 - Mar II 5 ) - and 2010

business partners for them. Analysts said potential us ers of the OpenStage phones

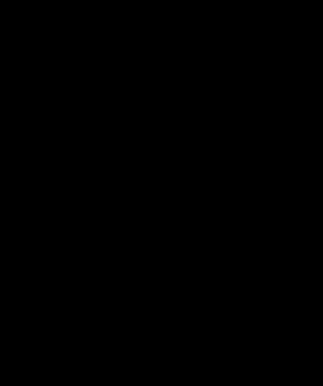
Training Services Inc. plans to deploy 40 new phones next month, said Ugur Usumi, dination of influence in the banks of the vies at the Washington-based company Houseignid the femal investigation probably won't influence future decisions shout whether to how from Siemens, though a sale of the enterprise networks unit might

support or product plans. As

for the fraud investigation, he

part on the company's future Signature and life foor now phones use the Session Ini tiation Protocol to integrate features such as disclosure of management and such to conference functionality for printed wareless and IP-brand communications, A Touch-Guide wheel on the front of each phone somewhat mittales. the word! wheel on itsel muriplayers and offers access to a

menu-driven mer interface Nors Enordman on analysi at IDC: said the new phones add some "bling" to end-user desknoes but don't contain features that distinguish them much from the IP phones sold by competitors such as Cisco Systems Inc., Avaya Inc. and Nortel Networks Ltd 9



# GLORAL

#### Regulators Cast Wide Not in I CD Probes

ROBES UNDER WAY by Japanese. and U.S. envernment accracies of nousible anticommentative behavior by makers of flat-panel displays became mubble last much on five year door die closed that they had been contacted by

I C Bhiling I CD Co. in Secul said last Monday that it had been subnornaed on Dec. 8 by regulators in the II C Courb Forms and Innan A day later. Samune Electronics Co. in Social made a similar disclosure, while Sharp Corp in Oraka Issue and All

the Trium best said they had been contacted by the Japan Fair Trade Commission and the U.S. Department of his tion In addition Chi Mai Opportectronics Corp. in Sinshih Tuiwan said a II S subsidiary had been contacted by the DOL The European Commisrion confirmed that it has

begun a similar probe.

According to Samsung

Contractor Corp. in Unio

An International IT Nowe Digoet

the investigations center on possible price fixing of thin-film transistor. I CDs used in products such as com man maritam lastes BCs cell shoom and digital massic players and digital manic puryers. INC NEWS CERVICE

#### Military CIO Confirms IT Support Problems

OLOBAL FACT

DA AUSTRALIA OUN MONACHAN CIO --- --mine marshal for Australia's Donarrownt of Defence, acknowledged problems with the agracy's IT contrast brooks during a beautiful held her month by the Australian Senate's Foreign Affaire Defence and Trade Committee

> Managhan managhad whether there was a backlow of 6 000 suppost postupate and if the remests were taking up to a month to process earlier this year He confirmed the backlon number but said it had been reduced to about 5000

At the besting

requests since the support problems were detailed by Computer Compiled by Mike Bucken 

weld to the late in Assessed Managhan said managast. Monagnan said support workers we the backing to a reasonable inself once

on consequently religious of Windows YD is appeared the added that the same loss involve services provided by regional IT units within the department not Sudney based Van Cross Dry which was awarded a five-year support WHICH WAS AWARDS

m poomey genou COMMUTEDWOOD DANSTRALIA COMPUTERMONEDARGINACIA

#### Acian Vandore Forming DRAM .loint Venture

LPIDA MEMORY INC. in Tokyo and Powerchip Semiconductor Corp. in Hsinchu, Taiwan, this month announced plans to jointly build four description of the features in Trimes and

the next five years The two companies raid they plan the two companies said they plan wan dollars (\$139 hillion II S ) in a joint wan dollars (\$13.9 billion 0.3.7 in a p early next year in a DR AM plant that Powerchin had already started building

in the city of Trichung The other three fectories will also he built in Taichung and give the joint venture a combined manufacturing capacity of about 240,000 silicon wafers

per month MUNICIPAL WAS SERVICE Briefly Noted

in Worse 2006 in Hong P ey also said the MELITAGE CHANGE TO MEMORE SECURIC

oyeums me, and heet but stern from Emoine Corp. Print in at 68,000 (200, ann u \* \

ACL LLC's planned sale of its nate of its in-lections in the U.S of The C

MONTH MICH CO PROMEWS SERVICE

Selloff Plans, Fraud Probe Put Spotlight on Siemens Corp, announced that it is that were announced last week Training Services Inc. plans

Communications Inc. last week appropried a sleek line of darkton phones but several analysts warned IT managers to be controus buyers because parent company Siemens AG may sell off its enterprise networking unit

In addition, the networking unit could be tainted by an ongoing criminal investigation into alleged fraud and bribery involving employees at the company's relecommunications network operation in Germany. The workers may have skimmed more than £420 million (\$553 million

U.S.) from Siemens since 1999 according to company officials and German authorities. Fallout from the probe continued last week when Nokia

"the results and consequences" of an internal review planned by Siemens. The enterprise and telecommunications network units of Siemens are part of the same operating group, although they were split into separate subsidiaries Oct. I as part of an effort to find huvers or

ject to a further agreement on

business partners for them. Analysts said potential users of the OpenStage phones

delaying the planned launch of b. Clamor Com a joint venture combining its the IIS arm of the entertelecommunications network neles networks unit - should unit with the one at Siemens. The joint wenture was sun ness prospects as much as the posed to begin operations in

scrutinize the company's businew technology itself "You January, Nokia said it now exknow where Siemens is today nects the launch to take place but (not) in two to three years." later in the first quarter, sub-

Mideast Edu-

company. I know said the fraud investigation probably won't inflaence future decisions about whether to buy from said Allan Sulkin, an analyst at Siemens, though a sale of the TEOConsult Group in Hackenterprise networks unit marke ensack N I affect his purchasing plans. But America.

Bill Crane, communications manager at bicycle maker Shimano Inc. in Irvine, Calif., said he will proceed with a test of the new OpenStage phones Crane added that he isn't worried about the possible effect a sale of the Siemens unit could have on port or product plans. As for the fraud investigation, he

to deploy 40 new phones next

month said Hour House die

gies at the Washington-based

sector of information technolo-

said he would "he more con cerned shout the stunidity of the people involved than its imnact on the company's future." Signers said its four new phones use the Session Initiation Protocol to integrate features such as desiston call management and push-toconference functionalies for wined wireless and IP-based communications A Touch-Guide wheel on the front of each abone somewhat mimics

the scroll wheel on iRod music players and offers access to a menuadrisen user interface Nora Freedman, an analyst at IDC, said the new phones add some "bling" to end-user desktops but don't contain fratures that distinguish them much from the IP phones sold by competitors such as Cisco Systems Inc., Avaya Inc. and

Nortel Networks Ltd. 9

# The Highly Reliable Times

WW. 1940 1 TOOTH

Windows Server 2003

# LONDON STOCK EXCHANGE CHOOSES WINDOWS OVER LINUX FOR RELIABILITY



THE READQUARTERS SUBLIBIES of the London Stock scheeps, located in London's Polymenter Square.

Reliability Is Key in the "World's Capital Market"

LONDON, Oct. 2006 — when an IT system must a process 15 million real-time from the process 15 million real-time from the process 15 million real-time from the process part of the process of the process

livery system.
The solution had to have rock-solid reliability, nothing less. "Reliability is one of the law, "Reliability is one of the particular of the Enchange in its technology systems." These systems have to word overy day, 24/7, to make sure the markets not them," said COD David Leaste, who would naid both Linux, and Micro

nology systems. "We tooked at a number of different platforms for our Technology Roadmap, and we lined upour business requirements with the capabilities of those platforms, and Windows

platforms, and Windows Server was the clear choice."
In Leater's view, longterm reliability is a function of a solid relationship: "We wanted a deep partnership with an organization that contid deliver the kind of mission-critical incheology when we made and on the

historeoft delivered just the For the full London See Suchange case study, ple other case studies and ind pandent research findings of the seliability of Window Server versus Lieux, visit to

BREAKING NEWS:

London Stock Exchange Ad-Record Reliability

David Lester, Chief Information Officer of the Lember

In his statement Moore said

Telegraphic and the second second second

tisete are some areas where

nal] support to be completely

sen-someren. He said be plately fixed by part Manch

Moore noted that the mob Moore noted that the provi

plementation will lead to no

procedures for the next major

test some of the application

procedures for the next major

# Payroll Problems Plague \$25M PeopleSoft Rollout

IGH-PROFILE paywil problems have playmed a \$25 million DeopleSoft FRE

mantation in the Palm Reach County School Dis-Beach County School Dismonths of operation

Come the Operator Come coft ware went live in July, there have been momentus instan of ampleance being underpoid communication will smill believe Germ a Carlabed Calif Joseph consulters bired in early Sencombandam mice an early Sep

In many cases the payroll amore have caused significant handship to sendon added Sharon Barmory Munley president of the local office of the National Conference of Firemen & Oilers, a union

representing more than 4.000 school district employees. In Sentember, navroll prob-Jame prompted some 300 bus drivers to picket the school board. Other employees have complained to the U.S. Do.

partment of Labor, said Barposture in the L "It's horrible" she said Some people can't now their bills, mortgage payments are

late, and they've rained their credit This is dispersons? Some workers haven't received overtime nov since lab because of problems with the

software, she added. "Of course we'd like to see it fixed "Barmons, Mundey said "In the future, if the district does a project like this, the personnel better do a lot of research as to how the system was applied and what the outcome was at

#### other public entities."

Inhlems Waning The district began installing the PeopleSoft software in April 2005, replacing a mix of internally built novroll, human resources and benefits systems that were more than 10 years old, according to Guay.

Francis officials dealined to discour the reasons for the manual amblance but defended

the PeopleSoft rollout. In an e-mail remonse to questions from Computers world Joseph Moore the echnol district's chief operat ion officer said that coffees aliabas affanting the negral! system have mostly been fixed

neckless occurred between July and September with the number declining significantly

motions has been delened world the first quarter of 2007 but he

mediated that it will remain mishin its 676 million budges Gray said that the glitches neurst affected more than 100s of district amplement at any time "There are 23,000 amplement and the problems

Soft project on the district's

EXCERPT

affected only 2,300 checks" in Control by Look House he did seknowledge that "the nechlaras ware neetty names The people that could affect in the least were burt the [most] " A status report of the Decole-

Demoken

in Monombos and 40 so far in Me added that the navroll anoblems openshedomed improvements in the district's constitute that more nossible by the PropleCol-

Web size said that 100s of sec-

plowers were affected by par-

roll problems in Sentember 96.

provements in the district's possauc Cursi declined to direlose and the second for the second

nephrene but he did acknowle adon that these were technical Sile also noted that the district's needs are "incred-

ipply complex, pecsess some individuals are paid as teachers consultants and coaches and the novroll system also has to reflect complex arrangements that are required under union "committed additional resourc es to remedy the situation." constructe

oversight, due diligence, and ovality assurance The DEC \*armes with 99% of the report" and will rake action to resolve the problems. said Alton Dillard a mokes. man for the commissi

The ePollBook was the choke point but there are some other things that need to be addressed," he added. The three-member on sion is achadulad to most to

morrow to decide how to hondie next year's local elections. Dilland said three options are under consideration, including the use of mailed hallots for all voters a return to precinct votins, or continued use of the

ntine center approach while fixing or replacing ePollBook "Clearly, the technology component of the election commission is pretty broken right now," said Chris Hender son, chief operating officer for is an independent body, and tist the election occupations business to sort out those questions," Henderson said But he added that he hopes the DFC looks seriously at the other recommendations in the consultants' report, including a call for the commission to

take advantage of the city's IT

staff and system resources.

Moore did say the scheduled Continued from page 1 Denver Vote

We noted that most of the

numeet or

resistered voters in Dermer which has replaced traditional precipct polline places with voting centers" where any resident can cast a bullot, regardless of where he lives. The software was designed to help noll workers make ours that people hadn't already second or

other centers during the checkin process But. Hessler and Smith wrote. "due to unnecessary and progressive consumo.

tion of system resources, the application's performance will gradually degrade in a limiteduse environment and will be

immediately and noticeably hampered with a high number of concurrent users Web sessions launched within cPollBook remain open unless poll workers click an "exit" button to close the

performance slowdowns.

application the consultants said in their report. But they added that according to activ ity logs generated on Election Day 90% of user sessions were ended by simply closing the browser window. That left the sessions running and tied up system resources, causing the

the software in last spring's primary election as a trial run. Performance problems during the primary should been taken as warning signs that the software needed to be improved before the general election, the consultants wrote Also troubling, they added. is that the application and its

it appears that the DFC and

underlying SQL Server 2000 database chare a Dell correct instead of running on sensents systems - a setup that would have improved performance, security and redundancy, the

committees eald The DFC chose the \$85,000

Securia-developed application over poil book software that is being used in Colorado's Lurimer County and has been offered to other counties at no cost. The Larimer application uses a server resident Microsoft Access client and an Oracle database installed on a dedicated server as well as five application estructe Mes. sler and Smith recommended that the DEC either have the

could be used in Denuer Hessler and Smith also said Michelle Shafer, a spok woman for Oakland, Calif-Servicia did no etpere tertine based Semmin declined to of ePollBook, other than using comment on the report in an e-mail response to questions While we may disserve with opinions expressed by the authors of this report, our focus is on helping Denver solve their problems," she wrote.

Sequoia application progined

or take another look at the

Larimer software to see if it

to addition to the cofemen issues, the report cited three ajor problems within the TVEC's IT department: "generally substandard\* IT operations and management, "dysfunctional communications' between IT managers and other leaders, and "a general and pervasive insufficiency of areas more thoroughly and plan more time for training and koowledge transfer prior and koowiedge trants Collectate from the Palm Beach County school board did not respond to request for and not respond to request Kerrin Curry, wice president for Oracle's public sector unit. said that the company has



V--

Dual-core.

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DON TENNANT

# The Ultimate Gift

OUVE probably seen the Apple TV commercial in which the goofy PC guy and the cod Mac guy exchange holiday gifts. The Mac guy's gift to the PC guy is a book of gift to the book of the duo's encounters. The PC guy's gift to the Mac guy is a frighteningly thick book titled C++ GUI Programming Guide. It's absolutely priceless.

C++ GUI Programming Gi
In real life it was a PC
guy who gave the Mac
guy what they always
wanted this holiday season. The gift came in the
form of a three-year-old
e-mail in which a member
camel in which a member
leadership team" proclaimed. "I would buy a
Mac today If was not
working at Microoft."
No doubt, the Mac guy
received that gift with the

guee of a 6-year-ous wno finally got a porty.

The e-mail, dated Jan 7, 2004, and presented as evidence earlier this month in the case of Comes v. Microsoft Corp., an antitrust trial in lowa, was written by James Allchin. co-president of Microsoft's platforms and services division. It was directed to Bill Gates and Steve Ballmer, and it hald outsime his

"Tim not sure how the company lost sight of what matters to our customers... but in my view we lost our way," Allchin railed. "I thiok our teams lost sight of what bug-free means, what resilience means, what full scenarios mean, what security

means..."

We in the media naturally jumped all over the remarks, and last week Allchin was compelled to explain himself on the Windows Vista team.

blog.
"It was a rant encouraging a change
to the way we were building Windows at the time," Allchin wrote, "I
was being purposefully dramatic in
order to drive home a point ... that
we needed to change and change

Allchin will leave Microsoft next

month in a departure that will coincide closely with the long-delayed launch of Vista on Jao. 30. You have to wonder how his lo-year career at Microsoft will now be remembered. Will he be forever branded as the DC use sold the second of the

Mac gurys the ultimate gift?

The had only one encounter with Allchin during those lo years, but it was enough to make me hooe he's

it was enough to make me hope he's treated more fairly than that. In August 2003, about four and a half months before Allchin sent that now-famous e-mail to Gates and Ballmer. Computerwork's Carol Silwa, Mark Hall and I met with Allchin at Microsoft's campus in Redmond. The timing could hardly have been spearheading the development of the critical next version of Windows, then code-named Longhorn. Microsoft and its users were recling from the destructive effects of the Blaster worm, which had exploded oots the international scene just two weeks earlier.

cartle.

What struck me at the outset of the meeting was that so many of thow serior vendor occuriers 12 Host of the serior vendor occuriers 12 Host of the serior vendor occuriers 12 Host of the serior vendor occuriers 14 Host of the serior vendor occuriers 14 Host occurrent 14 Hos

mg to 00 sometning about It."
It was in that context that Allchin
would fire off the e-mail to Gates
and Ballmer that winter. In his blog
posting last week, Allchin recounted
what that frame of mind yielded. "We
changed dramatically the development process that was being used,"
he wrote, "and we reset the Windows

he wrote, "and we reset the Window Vista development project in mid-2004, essentially starting over." In the end, that change may prove to be the PC may's ultimate wift. And

Don Fernant



DAVID MOSCHELLA

## Seven Paradoxes of The IT World

ANING WRITTEN nearly 200 columns over the past eight years, it's time for me to sign off, as least for a while. Writing regularly from stop a powerful platform such as Computerword can get in your bloods, to etting go is tunt easy, that it will always by garded in everyone will always by garded in everyone will always by garded in everyone will always be garded in everyone will have a by anged in everyone will have a by anged in everyone will have a by any memerous, and levariably heighted, editors. Most of all, I would like to thank Computerwords in readers for their counties.

thoughful comments, and even the sometimes tringing critiques.

If there has been a primary focus of this column, it's been assessing the evolution of the technology industry and suggestiog what it might mean for

technology industry and suggesting what it might muso for enterprise IT. Often, I have opted for an aerial perspective, with all the pros and cons such high-level vantages imply, for this final column, my collesques and I have tried to synthesize

tried to synthesize the key forces shaping IT today. Our somewhat surprising conclusion is that we are now working through a period of

brightened paradox. Here are seven 1. Self-image. The IT industry likes to be liked and likes to think of itself as doing and in the world by enabling generally "green" progress. But because the success of our busi ness is so closely tied to the rise of elobalization IT is often an easy target for globalization's many discontents. That the leadership of the IT industry is so dominated by U.S.based companies makes our business especially vulnerable to the growing anti-Americanism in many parts of the world. Increasingly, IT is both respected and resented

2. Martet power. While it seems

in discount has about the West has successed maisputatie that the web has empow tion and expanded choices, the fact nome in a that the amounth of the Internet has related to the growth of the field corporate profits. This enquests that the net of the Net has been to increase the net of the rection been to merea

nower at least for now 3 Sensetime Airbourch businesses and

now week in record levels of cash and rely on IT more than ever there is little reported for additional IT recording at loses not by the specialized FT essenti zarion. We are in a neculiar situation where IT often matters more than ever but many entermits IT constitution remain in the cornorate dophouse 4 Comments Many businesses fear

that they are deposition in complexity PT often outs the blame because of its tendency to spur endless variations in products customer seements pri ing and sales and comics continue But was desirable. IT is also presented as paradokkally, 11 is also produkted a erandarding and pours business proareas and information Tellingly lead ing simulification approaches such as SOA and Web services are themselves SOA and web services are

E Company Constanting these progring thickets of enterprise tinese Browing timemen or emerprise simpler and more powerful every day The second discountry way. narrador, where enterprise IT is the most coathy and conhisticated realm of computing but also the least modern and efficient Increasingly we can do

things at home for free (2008 a-mail answer! that companies, for all of their expert IT staffs and have conital etr. com? come close to matchine A Talest, The IT industry underthe debter and it included a married numbers of new II S commuter science

announce Vet despite this shorteen

ender of conductor of PT is evaluated sociecal knowledge of 11 is explodnenferrion — reience derien investing ententsinment — and as me all more

on the IT learning curve in our own lives. The paradox is the while many neonle are farcinated by technology then but don't meet to study comments. science and work in enterprise IT Do they know comething up don't 7 Con on Kommel What could be The second secon two most influential IT books of the past

few most innuential 11 books of the p Dans FT Matters and Base Vermonia The Singularity Is Near which rejects Carr's message by predicting a dagzling future stemming from the grow in the state of th nology and histochnology? One thing for sum is that they one's both he sight Or can they? A philosopher might armse that paradones callen result from

the collision between traditional and

amounted would advantable to trace to the former by felt of the least and vice seems. This appears to do. and vice versa. I his appears to dethe old world of complex comments private enterprise infrastructure led be technicians is being challeneed by nensing rablic infrastructure led by annications During such shifts things one oneity he both two and falso at the can easily

Through our work at the Leading Edge Forum I will continue to try to manufacture insure Venine College our research there tunes left excount. or nerhans someday again in these page or Until then thanks forestell and best of both in 2007 and beauty 2

WANT OUR OPERANT? More columns to and links to and was of previous

WPF Isn't There Vet DEVELOPERS LOVE WPF by what accounts you have been look ing at l'Under the Hood: What's Dif-

leased About Vista's GLET Comput enworld.com book excerpt. Oct. 171 but I can assure you that many developers including Microsoft's own are concerned about union the first release of Windows Presents tion Foundation. Did you ever ask who Vieta does not ship with any significant components that actually ---- WDF? It is still not a fully touted neet of the operation syste

and it is still not as fast as most velocers would like If you throw anything complex at it it starts to chup, WPF is a major achievement. but pieces do not overemphasize to take or popularity it is where Net was free wast seen it will take free ears to get to where Net is now erece Perry Software developer Standark Phyrough, Mich.

#### Taking Stock of the E-voting Situation

THE BELIEF that keeping the source code for voting machines secret will enhance the security of these systems is take [\*[Nebold Source Code Leaked Again \* Comcuerworld com. Oct. 21). That idea is called security by obscurity and the columbact it will have in in clear the availability of computerced votice markings that are actually service And least in mind that if the source code is exposed only once, we still have to assume that arrone could he in procession of it in fact since an exposure event could easily on undetected we have to assume the source code is already in the hands of anyone who wants it body

The algorithms and source co for ancryption algorithms are oublished oublick because it has been reneatedly shown that keeping

them served only burley week necess that will eventually be discovered. The only way we can be assured the enthuses is secure in to how if exposed to the hersh light of day such as by adversarial agarenal analysis and testing by experts in the software security field Linti voting machine software can estand such sonition we will not

hours a transmissment and involuntition regiscement method for usung risctronic systems in our voting system. Mark Wales Systems administrator. Авицитрис, тыбаниср.сот

N THE age of commercial electronic banking, I find a lack of lonir in Autol Rubun's statement that hackers can no a machine to print

recents that don't match the actual unto and that matching paper ballots to the detabase is a most difficult chore than advectised ITE-writing Tarboniony Fares Critical Test News, Oct. 231, When Just my ATM card in a foreign country, not only is my account debited occords in U.S. dollars, but I can get cash at the current exchange rate If I can on into any store in the rounts and most of the developed world use a credit card, get a paper recessi and

hast that my account will be debated properly and confidentially then it is believes to say that we cannot have efficient and sale e-elections Terry I Deffees Diamestic Medical Sonorrathy program director and associate professor I between the of Arkonson San Manfront Colombus I Stella David

DuBoseTerrobilt/AMSedu On Age and Attitude

#### A 8 I approach my 45th birthday tude than a number ("The Birth Date

Facuse "Editorial Oct 161 This lesson was learned in redison 23 years ago, when I met a lellow student named Errork County was assertions that you'd expect a good computer science student to be: eager to learn and a voracious medier. The fact that he was 65 rarely entered the conversation, but when it did, it was

contound For metance when asked why he was mandon his notion wears exerting a degree in come science. Frank would say that it was for his grandshildren. A year before, he had bought them a PC and mickly docovered that he was and the base of the second should be back surplied on he took

a class. That class lad to souther then to another and so on Frank avelained that he had rediscourse the roy of learning, essentially his very own version of the Fernance of Youth Over the years I've tried to condute Ecock contract the densers of becoming too set in my ways Starting with languages like

BAL and C. progressing to Cobol and SDL and finally ending up with C# TSI and PHP I've least learning Four years ago, I even decided to branch out and try writing, and now The written over 50 articles and a book on & IAY I naming plant a bin part in who I am now, and I owe my

attitude to a 65-year-old computer science student named Frank Edward Worthowsky Software engineer, Wilson Boro. Fa., ewoychowsky@yahon.com

OO MANY of us filteromethings Thouse out only with other fiftysometimes and share war stone about the good old days. Age does not have to correlate with fieschlits adaptability or curiosity. These traits normark successful people report less of one and the lark of these trads is a great productor of failure. Law Workinston Senior Incomess management Classes Sustant Sec Classicanti

handings Salaron our

#### SSO? Still One Too Many Passwords

S INOLE SIGN-ON is fine, but that does nothing for plemnatone nesswords: It and cuts them down to one ["Password ObsOKS:" Frankly Sonakon Oct 231 April homestors are no help Math@urter broke a supposedly mislible brose next reades with a photocopy of a thumbount And I'll issue my mount thank you. Maybe a stylus makes sense for a Palm Tree or a tablet + DC but I don't care to much wrone my desk to cole my money. Who needs carpel shoulder syndrome? Lion Howson Charlette N.C.

PUTERWORLD welcomes comments from its readers. Letters will he edited for brevity and clarity. They should be addressed to Jame Eckle. letters editor. Computerworld, PO Box OCT | Secon Short Empired Mass (1970) Fax (508) 879-4843 E-mail letters@computerworld.com. Include an address and phone numher for enmediate verification

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# TECHNOLOGY

## RFID: A Ticket to Ride

Zipcar members use KFID-oasteu Zapr cards' to rent vehicles by the hour or day. The application, which greatly simplifies the customer experience, is among those recognized in the 2006 Computerworld Honors Program. FAGE 21



## SECURITY MANAGER'S JOUNNAL Plugging Holes in

Antivirus software is quashing a vulnerability as it should, but Mathias Thurman wonders why this worm keeps wriggling in every day. PAGE 24

#### What's Keeping the Tort Lawyers at Bay

Mark Willoughby explains why predictions that security breaches would trigger a flood of liability lawsuits

# Application Overload

Eliminating **excess** software can free up **funds** in your IT budget. Here's how to cut out **waste** in your software inventory.

By Sue Hildreth

# 9

ARK LACK, who's in charge of business and financial of porting at Mueller Inc., a manufacturing firm in Baltinger, Texas, is only half-joking when he says the water cooler is his best source of information on what reporting software his

company owns.

Lack oversees Mueller's deployment of Cognos Performance Applications, a suite that's supposed to be the standard for analysis and reporting for the entire company. But sometimes he finds that competing moducits are being used instead.

products are being used instead.
"Someone will say, 'Hey, did you know this department just bought that package?' So I go look at it, and

it's not got even the same level of capability ours could provide," says Lack, manager of planning and financial analysis at Mueller. "We recently found out that our manufacturing department had bought a piece of reporting soft-

ware right under our nose," he says.
"They bought what they thought was a great software package without realizing we already had that capability in-house."

Redundant applications, unused functions in ERP and CRM sultes, and just plain old shelfware — applications that were purchased and then forgotten — are common and expensive. Costs related to the excess software add up: There are soft-

ware license fees, maintenance fees and the cost of the IT labor needed to support the applications. On top of that, there's a lack of integration and consistency among systems. Eliminating redundant or excess software can no a long way toward.

#### freeing up funds in an IT budget. Sniffing Out Shelfware

There are several ways shelfware can accumulate, says John Schick, a consultant at Compuss America Inc., an IT consulting firm in Naperville, Ill. Yone way is mergers and acquisitions, Schick says. "Another is through decentralized purchasing." That's when one department funds a suite of foods, then another funds a suite of foods, then another

department funds a similar project and buys a second soite that does essentially the same thing,"

In Mueller's case, lack of interdepartmental communication has been one of the chief causes. Like in many large organizations, departments don't always coordinate their IT projects.

"We work constantly to communicate what this (Cognos software) can do. But there's still a lot of duplication of effort with different departments, with different software systems, all trying to achieve the same thing," says Lack. Fortunately, there are a number

Fortunately, there are a number of other ways that IT managers try to keep waste out of their software bed in the second of the best

BEWARE OF SUITE DIS-

often wind up as shelfware. or partial shelfware. Jane Disbrow, an analyst at Gartner Inc., says plenty of CIOs complain that they're not fully using large enterprise suites, such as makinnolule ERP or CRM packages. She estimates that 25% so 30% of the

capationness wintin emerprise software suries go unuse.

"Vendoes really want to sell the complex suite of products, and they do that by offering very aggressive discounts," bishow says. While that's not initially a huge problem, given the large savings from discounts that can run as high as 75%, it can become one when the customer medicine that between the customer medicine that between the customer medicine than between the most

maintenance fees on unused software.

"The vendors don't want to remove those licenses from the contract because the revenue areas from maintenance is very, very profitable," she says. Lack says he, too, has seen managers unwittingly buy more software than there need. "Often, the vendoed will

they need. Orees, any vestedly with throw in a sweetener, give them something extra. Maybe they'll take them to hunch. Then lithe managers! find themselves buying a new piece of software whether they need it or not," he says. "It happens all the time." Soeffani Lomax, an analyst in the Marfloru, Mass, office of Software

It nappens an one come: Steffan Lomax, an analyst in the Mariboro, Mass., office of Software Success Partners LLC, a consulting firm specializing in IT asset management, previously worked for an IBM organization devoted in helping cus-

"Some large enterprise customers were complaining that they'd spent all this money on software but weren't using a half of it." says Lomax. "It wasn't just IBM, but all vendors who sold the large, all-you-can-eat agreements. These agreements usually involve a huge discount, but they can also be three years long. Plans and polocities can chanse in that time."

INVEST IN SOFTWARE MANAGEMENT TOOLS. Ascet management, income auditing and asset management, as the solution of the solution and it can be be uncover and/or manage software assets and licenses. In some cases, say CIOs, it would be extremely difficult to learn of the crisistence of shelf-ware without the right technology to said if to cut. How the solution is the solution of the crisistence of shelf-ware without the right technology to said if to cut. How the solution is the solution of the solution of the crisistence of shelf-ware without the right technology to said if to cut. How the solution is the solution of t

are examples of how different tools can

# CUTTING THE WASTE

Better negotiations mean less shelfware

Desire in regulations a tributal resize an earlier invario

WHEN PROVISION NEW SOFTWARE. If managers can easily get sold a
bit of leatures and functions they dara's really event, embed a great prich
them a before discount, or part because they sales each has made a great prich
for at about the fallow are serverors in the recombining a residence for the

by pile shared sections in the study cause of processing sections and sections of the study cause of the stu

get usually down I justly the maintenance and support costs incurred by the entits selfsions. Debrow says, Man, those entits applications won't be livestion when the former is reviewed, says South Learn, if contract intermediates at the livership of lidectings. The vendor seads the models at the vestile uption cost, only to charge for in later contract. In says, Other the harbore becomes entermediate after exempts, it is difficult to selfthem pays contract in the amount of the contract in the company. It is difficult to selfter in the contract in

Megodate the right to remove or swap out modate. Look for "swap-out" agreements where you can replace one modale with another at no penalty if your needs change, suggests Setfani Comos, a consultant at Software Success Pariners. Vendour who license based on super, are other times whileto the dotte this vendour who license based on super, are other times whileto the dotte this vendour who lacement based on super.

- SUF HILDRETH

help organizations get a better grip on their shelfware.

In URSH MANAGENI The University of Michigan uses Susasifras Software Inc.'s K2 software license management suite to stay on top of software usage.

"We create mountains of usage data through K2 that shows us in dave.

nurs revenue or total employee population, Disbrow says.

weeks, months, years the amount of usage an application has — by user, workstation, usin, department and so forth, says Scott Leman, IT contract administrator and IT asset management coordinator at the university. The data helps the university comply with license contracts and renegotiate them when use is lower than expected. With usage data in hand, we can work

them when use is lower than expected. "With usage data in hand, we can work with vendors to optimize our license by modifying contracts or by retiring the application," says Lemm, noting that the university once saved \$1.2 million through better license negotiations.

a APPLICATION MAPPING Boise State University uses Nisyers Inc.'s InSight, an appliance that can map out applications and their dependencies across an organization, says David O'Neill, executive director of the flasho university's office of IT. O'Neill uses that information both to evaluate the need

to upgrade or downgrade licenses and to streamline arelication management - by consolidating licenses held by different colleges, or increasing or deconscion a site licenses for avamale "The appliance eyes out and does an inventory of what machines are serving certain applications, who's using them and where. Then you can find out what you are licensed for, what isn't licensed and who's serving it " save O'Neill, noting that the results can sometimes be surprising. "In at least one case. I thought we were the only ones serving a particular application. but then I discovered that another one

of the colleges was serving it as well."

If GOVERNMOT APPLICATIONS These tools can offer a range of functions, including asset management, portfolio management and business process mapping. Warner Bros. Entertainment Inc., for instance, uses Troux Technologies Inc.'s Enterprise Architecture soft-

gies Inc.'s Enterprise Architecture software to keep track of its portfolio and the relationships between the various applications and business processes. "(Using Troux, I can look for redundancies in my application portfolio... and take advantage of opportunities for consolidation and reuse," says Douglas Rousso, vice president of architecture

FOLLOW THE MAINTE-MANCE MONEY, Many CIOs advocate spending time with the accounts

people are going to have been included in the included in the involved in the distribution of the distribu

mends shem, and maybe talk to the veridoz about lowering the price or getting rid of some of the products. "Jeff McIntyre, assistant vice president of technology services at BNSF Railway Co. in Fort Worth, Texas, says it also pays to examine your maintenance contracts on a regular basis." "Every year, I go through and say, "What is this, where are you using it?"

Because purchasing software is a double whammy, since you pay the license plus the annual maintenance fees of around 15%," says McIntyre. BNSF also tracks in-house application projects using a product from MKS Inc. to ensure that all development projects are fulfilling specific

ment projects are fulfilling specifi business requirements and aren't duplicating past efforts.

ADVENTISE YOUR AS SETS Ropue purchases by departments are hage contributors to the shelfware problem. So centralizing parchasing — and making it fairly easy for departments to get what they want

BNST has a central Web site where users can get every colvarae peckage the company owns. McIstrys: says. "You can log on a down-lead stylines." he says: "If it not there and a stylines." he says: "If if not there are the says of the says of the says of the says if if it not there is a say of the says of the says if it is not the says. If it is not the says if it is not the says if it is not the says. If it is not says if it is not say it is not says if it is

the company already owns." 8

Hildreth is a freelance writer specializing in enterprise software. She can be reached at Sue. Hildreth@concast.net.

# Ticket to Ride

This car-sharing company uses wireless technologies to simplify the customer experience. BY MARY K. PRATT



Zipcar Inc.

VICEANIZATION: Cambridge, Mess.-Cesses Zipcar the largest car-sharing company in North America, Northe self-pension, co-demand cars by the hour or de-

PLOSES, Roy Russell, founding chief tec toor and flows Williams, vice president of enviseering

IT STAFF: 10 employees : Company officials estimate that the initial cost of inv ess data network three years ago to communicate data betwee obicles and office-based servers was less than \$1 million. Retu elly and service to members, as sell as ciently extend the company

ACK IN 2000, the Zincar errow set out to establish a new class of transportation; our that driver could sign up to share for a fee. It was an ambitious goal, and one

ir seems to have accomplished. Today, Zincar Inc. has more than 70 000 consumer and business mem. herr with nearly 2 000 subjetes in multiple locations across 10 states. Washnoton and Tometo Members can reserve care online or via phone. And unlike a rental company, Zipcar places its cars in neighborhoods through-

out the regions it serves, letting members pick up and use the cars for quick errands or longer trips, similar to how they might use a car of their own.

But the unique business model isn't the only achievement getting attention. The technology the company developed to support the business is also attracting praise.

Zipcar started with a single car and the basic systems to support its first 30 or so customers. But Zipcar executives knew from the

start that technology would make or break the company, and that philosophy still drives them today We realize we have to create som

thing better than car ownership And one way we can do that is really ontimizing the technology and the experience," says Matthew Mallow, vice presi-Aest of marketing and sales operations Adds founding Chief Technology Officer Roy Russell. "This business doesn't exist without the combination of the Internet and the wireless technology to communicate with vehicles."



leff Woods on soubust of Contract les owner "What makes Tinger one Inc., agrees. "What makes Zipcar spe can is its KPID utiver authenceation ing " he says "What Zingas mut togething," he says. "What Zipcar put togot er is unique." Computerworld named er is unique." Computerworld named Zincar a 2006 Honors award recipient in the transportation category for its use of radio frequency identification and wife

#### The Technology

Here's how it works: Zincur members Here's how it works: Zipcar incinoers use "Zincards" to access vehicles. The cards solv on PEID technology to see cards rely on series accumology to rectimes. Data is transmitted between the unities. Data is transmitted between to Cincules Windows natural

For the first few years of operation. weener Zincer used Cellular Dicital Darket Data (CDBD) hailt on ton of an analog system to send data between its cars and reservation systems

A inhough Present core CDPD was the best choice at the time. Zincar's toch staff know it wasn't a long-term solution because the technology wasn't secure. In the early days, Russell recalls members could have used their cards to open any Zipcar, regardless of whether they reserved the vehicle. The technology wasn't scalable or reliable.

So three years ago. Zincar ungraded. choosing Cingular Wireless to transmit data between its vehicles and its reservation system. The implements tion took a counte of months Russell east it cost under \$3 million for the ontire project but doesn't have exact costs

oither

Zincar still relies on REID technology, used with a Zipcard and a reader on each vehicle's windshield. Fach unhicle now has a small embedded system, developed in-house and mounted in a concealed location. The Zincard is sutherized and information is commo nicated on a GSM/GPRS data network that ensures Zincar can administer ev erything from its headquarters. says Doug Williams, the compa-

ny's vice president of engineering. Zincur also uses the GPRS network to monitor its cars for security and billing purposes as well as for maintenance checks. Zipcar can remotely monitor miles driven, the time the car was used and engine functionality such as battery voltage and fuel level. The network can even alert headquarters if a member forgot to turn off the headlights. data that in the end reduces

# TOOLING

- MARY K. PRATT

intenance costs and belos everyonee a mood experience for customers Possell and Williams say they chose Motorola G20 and newer G24 modules for modems in part because the

hardware operates in a very low-power mode and therefore doesn't drain the care batteries. They chose Cinember Wireless for reliability and scalability Williams credits the IT team for ty-

ine all the innovations together. "It was really enthusiastic people who are into the mission of the company who accomplished this," he says

Russell and Williams say the compa ny continues to develop its technology. using it to improve the customer experience. "The business really focuses on the members," Russell says, "and that more than anything drives the IT decisions we make " I

Pratt is a Computerworld contributing writer in Waltham, Mass. Contact her at marykprott@verizon.net.





#### THERASTRICTURE LOG

\_DAY 45: These underutilized storage baxes have proliferated exponentially. Their inability to share capacity has doomed us. Me're trapped in a maze of our own creation.

\_DAY 47: I tried to give Gil a boost over this wall, but be called a boomie.

\_DAY 48: I've taken back control with IBM System Storage™ SAN Volume Controller. It puts my entire storage universe into o simple, virtualization pool. And, unlike EMC, IBM has fourth-generation virtualization technology and over 2,800 customers. I om seeina results.

\_Productivity is up. Utilization is up. I.T. guys lost in



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# Plugging Holes in Antivirus Shield

and other opera-

planted or being executed

The help desk also provides

received in the past 24 hours.

Last week, the bein desk

machines. The ticket volume

started out fairly loss but as

days passed, it rose exponen-

tially. It soon became clear

that none of these machines

was actually infected by a vi-

Trend Micro Office Scan, had

done its job, just as it had done

wirl my PC. Users got pop-up

messages about winllom exe.

and they reported that as

an incident That's isset as

it should be, and all those

reports were beloful, even if

onened several tickets on

reports of virus-infected

statistics on how many calls it

Software knone guaching vulnerability as it chould but how doce this worm wrights in every day? By Mathias Thurman

serweer Lemma it haded on my machine mering a daily non-un that's who I and the daily message alertine me non-up telling me above the incident But who was it recurthe same of the software had discovered the ring? I got my first cluc when I file wintloon eve in my default attended the daily operational directors: A little research told status meeting This forum me why the antivirus software which neually lasts a brick \$0 was flagging windless exec minutes or on is notwelly one of the more useful meetings It's the file dropped onto a system infected by the DDCVEV Lattend Tonically the data vulnerability But I still didn't center operations manager

...... happening repeatthat might have SPEIRITY occurred to the MANUAL PS necessary in a fairle 24 house since the old encourse worm last meeting and that we had the planme review pendsure of dealing with ing change tickets

back in 2005 After sie worm infects a system. it sits in the background waiting for the uses to enter his username and password in either the somewhat popular video come Priston Tale or a Vahoo Web mail account Once the user does that, a keystroke logger kicks in and begins capturing user keystrokes, including usernames and passwords

Supposedly, this worm will eventually send this information to a listening Web site. To avoid that we have placed filters within our NetCache security devices (formerly made by Network Applian Inc., which sold the NetCache ness to Blue Coat Systems Inc. this year) to prevent our Web troffic from reaching such sites. In August 2005, we had a serious problem with this nest infiltrating our environment, and I had to spend many bours managing the incident response. I wasn't happy to see it rear its ugly head again

The antivirus software was mushing the soyware when

Somethine was dropping the view-infected window ew file on a lot of workerst That meant that there had to he a server or an administra tor's deckton communication more town in front of with the PRSKEY warm. The way our environment is configured

carlo a compar or administra tor's deskton could remotely place infected files on users' docktone. Armed with this insight, we turned to our Trend Micro management consols to see management and determine whether any servers were infected. The report revealed

annual infested desistant and we were able to determine that the source of the problem was second Windows domain controllers, none of which had tional activities that are either antivious coftware running Now we were on to some thing: Our antivirus defenses

had holes Both the Univ and Windows teams are supposed to follow strict procedures when adding servers to the naturally The standard baseline for Windows servers includes the installation of the Trend Micro antivirus product This clearly hadn't been followed in every instance, so I had the Windows server team rus; rather, our antivirus client. install the antivirus software on the identified domain controllers and inventory all server to ensure that they had antivirus software as well.

I was booing this exercise would rectify our virus prob they were about machines that lem, but the number of help desk tickets continued to increase, and we weren't really getting anywhere with the Trend Micro reports.

My next approach was to have an engineer write a signature that we could deploy to our intrusion-detection

of this course I also had been start scanning our networks with Massus a feasily available port scanner. In addition to doing traditional port scanning Negros can determine ning, Nessus can determine whether a maximum the antiresults were alarmine Dozens of convers were installed on on servers were instance on enviertion What's more many of these sustame hadn't been matched in second

manus to look for indications

This sort of thing isn't unusual when a company doesn't usual when a company operate have a handle on its resources or lacks proper network seementation Don't get me wrong - we 40 a fairly good job at network segmentation. But as a elobal company, we can't effectively police far-flone users who install their own

networking gear and set up name networks on the cornoesta metavash. At come point technology such as network admissions control creek he deployed to help mitigate this type of activity, but the comname hasn't embraced it wet I regularly bring this issue

to the attention of our network manager and senior manager. ment and always get the same response: "There's not enough money and mannower to tack le that issue at the moment

We put the results of our scans and traffic analysis into an actionable report and we assistanced the presions force tional denartments the task of making sure that antivirus software was installed on exery machine in the con Almost a week later I can happily report that there have been no more belo desk tickets

concerning virus infestations and I haven't seen a poo-up message from Trend Micro in days. We seem to have rid ournahuse of this poissance sersin 2

WHAT DO YOU THINK?

This week's journal is written by a re-security manager. "Mathies Thurmer ose name and employer have to





bac in 165 major cities in the III C and in man a lamino will be as mily starting at \$1.500

no reports on com

e reports can be distri domatically via e-mail. Pricing r the software, which is also mileble through a poliware-as or month per desire.

## Adds Online thes Software Inc. this th unveiled a hosted do

ie now, starts at \$4.95

MARK WILLOUGHRY

# What's Keeping the Tort Lawvers at Bay

VFR SINCE security breaches became a regular happening, pundits have been saving liahility lawsuits are sure to follow Information security breaches have been dubbed "the next ashestos" because of the potential for courts to force companies to pay billions of dollars in damages to thousands of victims.

But it probably will be

many years before large numbers of victims of information leaks collect a dime. There are a county of resease why the deluce of security learning hasn't materialized. according to John Some A professor at the University of Denver College of Law and the executive director of its

Drivacy Houndation For starton there isn't a legally recognized foundation for Issueching Issuesite over data breaches. The mere occurrence of a security breach is insufficient instification for filing a lowsuit. Soma says, Lawsuits charging neglipence must show that accented standards of performance weren't met But today's

standards of security performance are either immature or untested in court. Actual damages are the second criteria for a lawsuit. Asbestos victims were exposed to a hazardous substance and exhibit symptoms of deadly diseases directly linked to that exposure. So far, there haven't been thousands of security breach victims who can demonstrate that they have actually suffered significant damages, although the potential for

that to barren certainly exists. It isn't even easy to file a lawsuit saving regulations were violated, because today's security regulations are purposeby nebulous. The lack of concrete details in federal security regulations, such as the rules under the Sarbones-Oxley Act the Health Insurance Portability and Accountability Act (HIPAA) and the Gramm-Leach-Billey Act, make a poor target for the tort bar.

Dan Langin, an information security

lowver in Overland Park Kan you the least system is not the stoop whom the compliance picture is had sorted out." For example, the Securities and Exchange Commission's guidance on internal controls required by Sarhanes-Oxiev is nowhere near as specific as the Envicommental Protection Agency's regulations on ashestos

HIPAA and Gramm-Leachdiley have yaens security guidelines, too, And the security frameworks often used to comply with federal midelines ISO

17799 and the Control Objectives for IT and Related Technology (Cobit) from the IT Generouse Institute house's been sanctioned by court decisions. Any lawquits seeking to establish a precedent that makes these security frameworks a standard have probably been settled out

of court to preempt that from happening.
There have been some significant, cell-publicized recollectory actions taken against companies that exposed confi-dential information. Last year, the Federal Trade Commission charged that lax security at BI's Wholesale Club led to the fraudulent use of credit card information. A settlement requires BJ's to implement an IT security program that will be audited over the next 20 years. Plus, the company is embroiled in lawsuits seeking damages totaling millions of dollars. In Innuary, the FTC fined ChoicePoint \$10 million in civil penalties and \$5 million to cover the damages to individuals arising from ChoicePoint selling sens tive consumer information to crim ChoicePoint, too, was hit by lawsuits.

Date there were an exemptions One challenge for the tort but is that the actual damages for victims of security actual damages for victims or secur action soit everyone must suffer similarly So unless identity thioses realizate scame wenting in damages of approximately similar amounts, it isn't clear how security breaches can become class. action suits like the big-ticket sharehold-

er lawsuits alleging securities fraud. The wild card for information security lawsuits is the possibility that eximinals are sitting on thousands of stolen identities, waiting for credit-monitoring defenses to large so they can nownce and maximize the potential gain from their scams. This scenario could lead to classaction suits if the damages suffered can

There's enother way that data leaks could turn into class-action lenguity if we recognize the economic value of privacy and the costs of losing that privacy.

Risk management techniques can easily he mad to calculate the cost that victims incur to repair privacy breaches, such as the costs of monitoring credit, closis accounts and opening new open. With those metrics, class-action lowvers could fulfill the requirement to show similar damages on a large scale

Perhaps the biggest reason we haven't seen a flood of lawsuits is that organizations are raising the bar by imolem ing stronger security that a jury would find adequate, "Most companies have ercially reusonable security in place They've effectively incredated themselves from liability lawsuits," says

technology lawyer Mark Grossman. If misfortune does strike, and you discover a breach despite your best efforts to keep systems secure. Convress is considering preemptive actions to stymic the tort bar. Legislators have introduced bills that would, if passed, give a federal exemption from liability lawsuits to companies that voluntarily disclose the security breach and cooperate with in-

MALT BUR OPERAN?

Your enterprise information is exploding,

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# When businesses get serious about INFORMATION MANAGEMENT AND MOBILITY they get Sybase.

Ready to get serious about biking your data infrastructure to the need level? Choose the company that it is fortune the degradation rely on to security debries decision-needly information to the point of action minitip providing the IT content of on read-of-serior commodular software help your IT death to break down the complete barriers in your data from, ensuring information moves searchedy and security between data sources and points of action. So if you're ready to make the Universit Enterprise a readity, let Sybtex help you deliver some serious results. To loan may not known serious committee strongs?

Brook Thie Bule Sometimes ignoring compenti window is the strategically count



Employers' nicks for the best ways to advance completes picks for the best ways to advance your career; certs that don't pay like they use to: ILIR visas with an Australian accent: and career advice from an IT leader PAGE 30

ets Are Opportunities

e reviews madity and other assessments eign pasetine reviews, against and other assessments governor a change to re-majorate direction, change strat and enter new markets, save Bart Perkins Pans 39

**How do you become** the business boss, and then what do you do?



a tech person in the lead is still onach. ema he says, but in others, there is increasing recognition that good lead ership can come from any field and is to he nurtured wherever it's found. We saked four former CIOs to reflect on consists to CEO. Here's what they told us

firm Korn/Ferry International, Technology companies have been willing to promote CIOs for some time, he says, "but the new cross in that CIOs are becoming account managers in all kinds of industries " In



# If You Want to Move Un

ALONE WATER BOXED BEEK Andrew Studden CEO of NES Rental Holdings Inc., believes one key to his success is seeing himself as a generalist, not solely an IT assess There's a detail improve ion of the CIO or a person. I here's a dated impression of the CiO a a line of code in my life. ClOs have to be successful wanter or court in my tire. Cross neve to set successful to last and they're not make to move un."

a KNOW WOLAT'S REEDING YOU BACK Those things his des C'Ob' sesses made over Assists CEO Benjamin Salemann. First is reporting to the chief financial of fines "This is the most disease" he saw "Why have IT neer. "I his is the worst disease, no says. "With have a the CIO reports to the CEO, and I'll show you a company lagging in its industry in the use of technology." Sec and, when they do get to speak to the board of directors. "some CIOs don't use a human voice," he save. "They start speaking in alphabet soup, or about lava. It's a big mistake," Finally, CIOs often have difficult relationshins. with other executives because under the pressure of barbers and deadlines they get in the babit of saving no.

which doesn't make them particularly popular, he says. COMMIT, One of the problems with tech people is that there's so much demand they can always moss to some other industry. Salzmann says, Instead, be suggests that you make a commitment to a specific industry. "If you learn exerciting you can shout your industry and bring broader suggestions for change to your company, you'll skyrocket," he says

- HEE WITH I WE OF WELCH Calmann believes that more CIOs should move up, because they work with all departments and we every aspect of the corners rion. "It's an incredible advantage," he says. But in his own case. Salzmann supplemented that view with ness smarts in fact, the business survey came first After certing on MRA and morbing in marketing for the first five years of his career, he went to night school to enady communers. "Many projects that I was pushing for weren't getting approved because of IT resource issues. so I thought that if I went into IT. I could really make a difference in the company." Salzmann says. When he switched to IT, he became a liaison with the business areas "because I better understood where the business neonle were comine from," he says

MOST THERE ATTENDED Chris Laferen, CEO of Schneider National Inc., says his ability to explain clearly how FT projects could create business value got the attention of the company's executive team, which gave him an opportunity to run a business unit. Loferen was put in charge of Schoeider's logistics business, which he led to significant new growth "And it proved very valuable for me as CEO to have had experience running a business unit," he says.

· SHOW YOUR EXPERTISE. In financial services, undenstanding what technology can do and how IT assets are best used is a critical competency, not just for a CIO, but for a CEO as well, says Donald Donabue, CFO of The Depository Trust & Clearing Corp. "It's



De COMPANY AS CALL Loignen served as CIO of the Loigren served as CIO of the company, which bills itself as North America's largest - 1000 and he was not nt and CEO w 1000 of with movin private truckload cerner. He hecame chief operation of ow in a "nan pective com operand or ortion with an aud nam that has re-fer In CCO = 2000

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posturate was named 2006, after four years an CIO and three as COO at OTICS whose subsidianes remode whose subsidianes provided when tructure for clearing need and custody of U.S. securities transach of the firm's post-9/11 hand



NAN Shedded Into heavy equipment metal com-pany in 2004 after serving as CIO and COIO of United Air as CRO and CROO of United Air Lines Inc. Earlier in his career look at Door I

no longer doing any hands on work. "They'd become but ourrease. I was were hands on as CIO \* Salamana says. It was a painful process, but he felt he had to put his own team in place "A company needs a leader" Salzmann says. "Either do that or get out of the way."

- DEDLIFATE WHIR SHOOFSRES, Donabus says the concept of process management is more advanced in FT than it is in other disciplines. As CIO, he led a highly successful process realignment that started in application development and reached into IT infrastructure "When I become CEO me bearn extending that effort outside technology to other areas," he says. "We are reusing those detailed metrics to measure processes in non-IT fields"

# PROMOTE OTHER CIOs. When I oferen says that CIOs should be promoted into other areas of the business, he walks the talk. He ommoted his CIO. Stone Mathews, to executive vice president of sales and marketing, "He didn't have any sales experience," Loferen says, "but he is good at leadership and processes, and that was something we needed inside our sales force. It's worked out great."

a THIRK AND ACT THE PART. CIOs view strategy with a tech-focused lens. Donahue says. "As you move up to CEO, you have to take that less back and think shout strategy from a much broader perspective and not always have an IT bent," he says, Another challenge is to delegate more. "As CIO, you have to do a deep dive in the details of projects," he notes. "But as CEO, you have to learn to depend on other people to make sure the projects are going well." Also, as the voice of the company, Donahue says, he has had to become much more externally focused dealing with regulators, customers and partners. "You have to stay in touch with constituents inside the firm." he says, but you spend more time keeping an eye on the out-

side landscape [for whatever] is coming to bite you." Raths is a freelance business writer in Narberth, Pa. Contact him at draths@mac.com.

#1 FARM AROUT FINANCE As CIO Laferry reported directly to the CEO and had a gest in executive team martiner. That mere him a broad piece into both operations and sovernance, a key manirement for a CIO to be able to move up be save. Although Loferen didn't amount to the CPO he turned to him for help "It became clear to me that a strong understanding of corporate finance would be useful." he says "I was locky to home a CFO who was willing to educate me. With his belo. I was able to set an accelerated view of corporate finance which a CFO really needs."

where your biggest expenses are, and it's where your

biovest value-add is coming from — your competitive

differential — so the roles of CIO, COO and CEO are

RUN IT WITH A CEO'S MIND-SET, Run the IT division as a business, not as a technology group; otherwise von'il he CIO forever, Studdert savs, "You're in a position to see the company from the inside out, from the bub out to the snokes." he explains. "It's a union place to become a change agent. That's how I moved from each to operations at United - by taking an operational view of technology

# ... And Once You Move Up

WHIT THE GROUND RUNNING. When he first arrived at NES, Studdert set out to map its processes to understand how IT could help through automation. "The CEO has to have an understanding of what technology can do for the company and use that understanding to push the limits on the business side," he says. "But if you don't understand the business process, the technology will fall or be underutilized."

· MAKE THE HARD CHOICES. Salzmann says the most difficult part of his transition to CEO was replacing seven of 10 company officers. He believed he'd inberited an officer team that had made the mistake of

#### CHUY L MATURE Wedded to be seen dicion of immains on technologies early The New York based -Austicing account was in the vanguard of virtual private was in the vanguard of virtual private were active on the company's network Some might east that Oribo's IT moun violence on unwritten IT management rule that cautions against investing in

nascent technologies too soon But to Visi Amilia a conice partner and chief technology officer, breaking these rules was strategically sound We know way be able to achieve much



unwinten ruses and that manager imore at their peril. But most IT managers occasionally break or bend a rule, so we

talked with some of them shout when and who was should consider doing so

#### Know the Rules Before you can break the poles was

have to know what they are. Other than the rules analihiting unethical and illared note there are few universal IT management edicts. What is prized in one corporate culture may seem

foolish in another For example, Rich Hoffman recalls that perior planning was discouraged at an entertainment company where he once worked. "They prided themselves on not

planning IT was fest and loose "he says. That was a rule made to be broken. but Hoffman, who is now president and CED of Hyundai Information Service North America LLC in Irvine. Call will be dee by weren of the culture



be done," be says. Once you know the rules, ask yourself if you have a good reason for wanting to break one Rule breakers are rarely rebels without a cause, says Mark Lutchen. a partner at New York-based PricewaterhouseCoopers who formerly served as the global CIO for Price Waterhouse. \*Often, people break rules not because they want to be renegades but for murposes of expediency," be explains.

Some IT management 'rules' are made to be broken. Here's why and when to do it. By Judy Artunian

#### Here's HOW!

BO determine if it's worth the risk. Undersit what makes the situation unique, what the a process or procedure will be and why it will no inconvenient over the traditional accrus-

DON'T break a rule based on a hanch or knee-lask reaction to something you hear DC share the risk with records to your come.

Darrigularly in IT he case rules can become outdated quickly. "A rule has to be constantly re-evaluated because IT is constantly changing," Lutchen says. You may have a set of rules that were for a different era or infrastructure."

#### You Break It. You Own It

Before you break a rule consider the consequences, "Assess the risk component and whether you're willing to accept it." savs Lutchen. For example, he says, if a company were facing bankmentry and its software engineers were leaving for more secure jobs, the only way to keep IT functioning might be to outsource all or most of IT. In that case a CIO might accept the risks associated with outsourcing core competencies, even though that's breaking a major rule. But outsourcing the actual manage ment of IT would probably he judged an unacceptable risk because the CIO is

ultimately accountable for management Here are some axioms that were perceived as rules by the IT manage who broke them, along with their advice on when it makes sense to do so.

decisions

#### = RULE: Launching a project reg a business case with a clear return on IN WHICH WALL CAN ROFAN IT- When the

project will deliver intuitive benefits. During the Price Waterhouse merces with Coopers & Lybrand in the late '90s. Lutchen made standardization a priority so that the newly merced firms 150,000 employees in 150 countries could work together more seamlessly He recalls that developing a complete impossible because future benefits couldn't be defined. "There were thin we couldn't see at the time " he says

But he knew that standardizati would pay off, and time proved him right. "The minute computer viruses came out, all we had to do was make one change on a server and push that change out to everybody. We didn't have to touch every PC," says Lutchen. He had understood intuitively that one problem, like a computer virus, can create 150,000 problems, but standardization can shrink that back down to one. But you aren't going to get into detailed a Dill C. Dan't offer become to project team if your company's human

resources policy prohibits it. WHEN YOU CAN BREAK IT. When I namer a warmet for EI sector and retain the best people is porticularly touch.

the best people is particularly tough. team members from walking out the June 10-les like that can be carried to on outcome becomes you don't must [IT] an extreme because you don't warm to a to be different from the rest of the organiverion" and I stoken "But I'I is differand UD accords don't absence understand

#### the makeup of the TT made take T # RULE: When you have to trim the IT riole: When you have to door, cat back on iT train a water you can part at it was you

need to hold on to key members of your team, which is virtually always the case. This is a rule that smart CIOs break reeularly "When works and right had not and you're trying to cut, professional development tends to be one of the first things to on " one Brise Young vice noneidant of FT or Coninhton I belowwith in Omaho. He prefers to find other ways to trim. For example, he says, "we have a softest for consum more three water that make had an entered out from an fine wears on the resources would be there to invest in training

# RULE: Don't invest in new technology o til the early wrinkles have been ironed out. IN WHETH YOU CAN BREAK IT: When you need cutting-edge technologies to com-pets in your industry and the horm of not investing outweighs the risks of investing. Oriby's VPN cave the firm an edge in a competitive market by significantly reducing the time it took to discribute

advertising material to the firm's offices around the world. Armiar says · RMLE: Sion only short-term IT contracts tuess the late of technologies and ven-

#### dors can change quickly # WHEN YOU CAN BREAK IT: When you have a reliable partner that provides or narriess and its contract includes orice

reductions and other adjustments over time. If you've found a good service provider, you don't need the headache of renegotiating every year, as long as you write the contracts to be flexible. says Young, "For example," he says, the language in a multiyear contract for bandwidth should say that every six months won can review it to see if you can get more bandwidth for the same price or the same bandwidth for

Artunian is a freelance writer in Newport Brack, Calif Contact her at [ROI] calculations around that," he says. | jortunian@sbcglobal.net.

a cheaner price." P

muster according to Yoly Separate LLC's Index of Technology Water based on wares of anomamately 5,000 temporary technology confessionals hard by more than 1000 histories in the audion entitles on if menulactures scientific telecom

Other hourly rates in the in	dex
Technical ERP consultant	\$83.36
Oracle database administrator	\$58.55
Project manager	\$54.41

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Lucyald like to return to school to study

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I have been in technology for 30 years. and made a good living until outsourcing took my job. I know that if I move to a hanner eity my soh nensnecht words um names but I really do not want to do that Any connection on how I can get hack into the IT market in a seminual area?

executed or a filled non-morbible ablanta before real contracts of the breakt distances to mak at home. Present to market wounted as no refresher and and their removals.

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When I have the horsey of Miner a variant techin aligh left navis som som som sked Sort can be difficult for those and entering the and the electrical Many emercialism

#### Reaching Out From Down Under celly token about a year says Barrieldt. The

The concurrence of several systems mization and integration projects at Australian pregrament agencies has led the country's visa burgau to launch an international recruitm ment drive for Java C++ and other benes of IT professionals

The number of technicians with Siebel SAP scupty and other types of expertise presided work on HT reports in the right's sector "lut" acute" demand has led the Australian A Burnou to add these and other skills to its Minister Occupators in Demand Let says : Barrusid a communications

- Its the tuesau in London 24 yes for enrugation with collegen an open Ten factor's noncombandable to obtain a write sponsored was known in Av-Justo as the 457 Standard Reserves Sponsorethic Vice which ar along to an Hill Burn on the U.S. have no The first part of the application process is a skills assessment in which applicants

detail their educational and professional buck crounds, including expertise they've devel need in a smight after dell. Technically you rice't have to work in the field that you aren't for " says Baerveldt. "You could apply to be-in

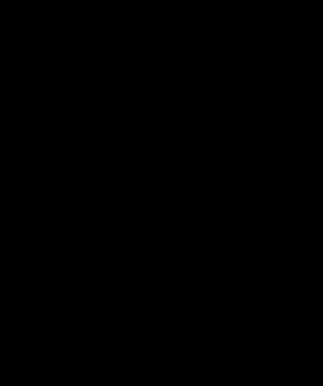
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THOMAS HOFFMAN

CompTIA Security

ComoTiA Linux

Source October 2006 survey of 56 000 H workers in North America and Europe





GETTING AHEAD

#### ASK A PREMIER 100 IT LEADER



would like to return to asked to study der enisene What areas should I rate on that would not be likely ins for enterprising? Outcoming of good-peying technical jobs is definitely an issue. I believe one way to insulate oneself from the cossibility of outstancing is to focus. non-energia (T does not provide a return on investment unless it uses its power to chance processes to make an organization more ef-ficient. Bu conceptation on methods, across definition and analysis, you will brane to the tahis not only the ability to structure automation. but also the ability to identify what to automate. I give new engineers a chance

And it's much houses to offerhoos concern and systems analysis then programming and burburns design. Although it's difficult to focus on a continuou mobalto vabile in un acadiemic on a particular industry while in an academ health case banking or manufacturing does menon care, between or manufacturing does strengthen your hand. I would look of inclusional or management engineering programs with a

or management, engineering program I have been in technology for 30 years and made a good living until outsourcing took my lob I know that if I move to a bigger city, my job prospects would im-prove, but I really do not want to do that. Arry suggestion on how I can not back Any suggestion on now i ca Manager treet among properties? Described on your exact skill set you might be able to but on and win contracts that would allow you to work at home. Prepare to market yourself heaved the home of strume like the internet to find out what types of configure come are recasition for, and send their revenues. outlinion how you could fill their needs as a contractor, not an employee in other words.

have them outsource to you I just graduated with a bachelor's deney best hope of an entry-level IT job?
When I have the luxury of filling a vacant technical job. I often seek some very specialized concentration that makes some expensions So it can be difficult for those just entering the workforms to just a job. My recommendation is to seek out opportunities at a large technol ozy vendor such as Intel. Amdehi Minternia or Cours. These companies are more tituly to

# Reaching Out From Don'n Under





# **FVENTS**

#### Executive Coaching lan 25-25 New York

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Feb. 26-28, Cambridge, Md.

The Knowledge Sharing Summit feetures tracks on core competercies, knowledge sharing and trends. Presentation topics include lessons learned from social networking, lead ensoin behaviors of successful treams. menting after-action reviews. how to get a knowledge management process started, building a measurement framework for KM and connect ing your workforce for performance.

sessments can help you accomplish: Develop a common language. Different people use different terms in different departments. Having a set of common terms and definitions eliminates many misunderstandings and can help the organization separate symptoms from

BART DEDKINS

# Assessments Are Opportunities

root problems. For example,

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An assessment provides an overall un-

perspectives and provides a common

framework from which to analyze IT

Liston across the company. It's easy for

senior management to become isolated

from the people and problems they man-

oping solutions.

common definitions help

distinguish discretionary

ANY corporations periodically com-

mission external assessments of their IT organizations IT staffers usually look forward to these assessments (also known as baselines, reviews and the dreaded "audit") with the same enthusiasm they exhibit for root canals. Assessments are often perceived as witch hunts with hidden agendas whose primary purnose is finding fault and punishing (or firing) the guilty.

offer unleable benefite. Then provide IT staffs and senive menagers with a rare opportunity to step back from day-to-day concerns and re-evaluate direction. change strategy and enter new markets. In addition. assessments often belo to immrows other departments' percentions of the FF oresperceptions de come est cogn frequently commissioned by new CIOs as an unbiased

way to quickly familiaring themselves with their new omanizations Good assessments offer an

importial and comprehensive picture of IT concerns across the enterprise They must clearly describe the business demand for FT services and the cost of those services and they must provide an analysis of IT's capability to deliver. These components together should provide a thorough summary of IT's grenuths and weaknesses. In addition, assessments normally include recommendations for strategic changes and clear definitions of

are. Middle managers and knowledge the projected benefits to be derived from workers usually have a good understandthe recommended changes. ing of existing problems and potential Here are some additional things assolutions. However, they frequently have no mechanism to communicate these ideas to the executive team. An assess ment provides an opportunity for senior management to listen to fand learn from) all levels of the organization. Don't overlook the many good ideas floating around your company.

standing where your business programs lead or law your connetition's is critical Her an assessment to eain industrywide necessarius Company your IT cominer perspective. Compare your 11 service. of other companies Consultants and research firms can provide competitive data. To addition other companies in

your industry may share their data privately.

Establish a discussion forum for IT issue Virtually every FT operation has a large backlog and vocal critics. Well-run

IT groups have entities that establish IT priorities and debate contentious issues. These may take the form of steering committees. IT executive committees or ideally accords items at executive tangible benefits, Definitions management committees. If an effective forum doesn't exist in your company, the assessment can be used to establish this important function. And remember this group should also be made aware of fand celebrate) all successful IT efforts.

Provide air cover. Investing in an assessment demonstrates the company's proverbial group of blind desire to improve the way IT supports the business Inevitably the desired improvements will require additional animal differently dependstaffing, funding or political capital. The susessment belos provide justification for body he's touching. While these needed resources. As a side benefit, each viewpoint is valid, none is able to

it also belos mute the critics until the results of the improvements are realized Function as catalysts for change. Even derstanding of IT that combines multiple when improvements are desired, people usually resist change. Assessments can provide the necessary inspiration, en-

erry and momentum for change to occur An assessment is only the first sten. Budgetary or other constraints may require you to pick and choose from among the assessment's recommendations. But you won't reap any benefits from an assessment if you don't take any action. Use the assessment to bring about changes that will improve your organization and enhance IT's ability to support

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# PANIES IN THIS ISSUE

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#### Continued from more I County Data

images often contain personal identifiers and usually are recentification and usually are ternet access. That has made course. Web cites a peritable tressure-trove of information for identity thisner according to minute administra

Many county envernments still haven't begun to address the prevalence of personal data, despite heightened public eald R I, Ostergren, a privacy said B.J. Ostergren, a privacy a emuring number sonear to be attempting to fix the nechtom the added "I shink a lot of people are beginning to put the skids on this sort of stuff" Outnement sold

In October, for example. the council that courses Washington's King County. which includes Seattle passed an ordinance requiring that the county recorder's office remove online access to all ricke deed documents. The water

discovery of more than 200 Social Security numbers in shading those of coursel mobile officials and professional

otheres in ritle deads on the accountate West Ferry that the ordinance reals use use usually business interestions with morteur companies and

mortgage companies and others promoted some initial and the second services office said a spokesman for Peasan Dunn the council examples who expressed the hill But the title deeds have been milled from the rite and many he sectored until the Social Security numbers are about blocked from rublic

somenow processed from pr In another example, the recorder's office in Grant County Lod multed all of its document inc. pulled all of its doctain. halv after a lawresit related to desting their was filed servines the county. "There are no definite plans to put them back up on the Internet, although Social Security numbers will

and a second second second

Simber Conner I must in conseral states in Laws in several ataces, in-Weshington require recorders to reduct nemonal data from to reaser personal anna nor to a set information are be a

#### Dual Anoroach

Foelesone said that in Orange County, each image was reminuted by medaction coffman from Mentis Technology LLC and then manually checked by and then manually enecked by more acceptant with a human neview is much more dependshie than human cases search ing poor after page," she said

Software-only approaches are also unreliable said Dana DeBessevoir, clerk of Travis County in Texas, "It's definitely not the suspensed process that software woulder will have you believe," she said, adding that workers have to double-check documents to be reducted starting next year" verify that proper reductions.

Lassans Laarnad huns challenes because of the chase number of documents that need to be examined

> have taken place. The wide range of document formats and the fact that some documonte one handwritten con nose amblems for reduction software Dellemonic said

Travis County removed all document images from its Web site in tune because of identity theft concerns and just started nutting them back coline last week after reducting sensitive information

DaBassania said that shout 1) million documents had been ii iiiiiioti documents into that another 5 million news manufactured on back online records snound go took comme soos. I would give the quar But the manner of reduction

- Francisco de reducti efforts retroute to quanprinces importing the refer private investigator with Parameter a newstetter called Shallowater, Texas Discount of the shortest Ten

wie Country's Web site last mark "and the surve first door ment I found appropriated Found Security numbers, driver's liconsulinformation and a home cease information ..... Subsequent pages provided Suppopulation pages provided information he added What's worse is that the Web site had numerous names like that

Bloom claimed "Reduction just doesn't more " be easid. "I think the only was to mally partner these documents is to make sure they stay within the four walls of the courtbours " a

## Users Unhappy With Massive Navy Intranet, GAO Says

The Navy/Marine Corps Intranet program has yet to meet user expectations even though \$3.7 billion has been spent on the effort over six years, acconding to a percent released earlier this month by the U.S. Government Accompachilis

Office The Navy's effort to create a single intranet system for the two branches of the military is expected to be completed in about four years at an overall

The report states that the N/MCI program has failed to meet the two strategic goals the Navy set for the project at its 2000 launch: to foster innovation via intercoverability and shared services and to provide information superidefines as the capability to collect, process and dissert note on uninterrupted flow of information while evaluating or denvine an adversary's shilling to do the same The Navy has also failed

to implement a performance olan it created in 2000 to measure and report on the project's progress, the GAO said. \*By not implementing its performance plan, the Navv has invested, and risks continuing to invest heavily, in a program that is not subject to effective performance manage

ment and has yet to produce expected results," the report said. Electronic Data Systems Corp. is building the intranet under a contract signed with the Navy in October 2000 to

create a single system for the Navy and Marine Corps. FDS said that more than 500,000 active Navy and Marine nersonnel are using the system During the next four years. FDS will continue to install desktop, server and infrastructure assets to replace the thousands of independent net-

works applications and other

ran the previous Navy and Marine intranet systems The CAO found that the News's own surveys of the three main intranet custome erroups - end users comders and network on erstors - revealed varying levels of entirfaction with the program, mostly lower than

he challenged in meeting orngram goals," the report said. Changes to Come

The GAO submitted recommendations to the U.S. Department of Defense, which oversees the News Among them were that the Navy should be required to implement a more

the New's own threshold for a

satisfied user. "Without satis-

fied customers, the Navy will

effective performance manage ment program, better measure service-level arresement nee-

formance and better manage contomer satisfaction effects In a response included in the report, the DOD said is plans to implement the recom mended changes. However. the DOD also contended that the report contains factual er-

rors, misinterpretations and unconnected conclusions In its response, the Navy claimed that the project is a strategic success and is meeting its goals of fostering information superiority and innovation. It noted that the new intranet has thwarted inetrated other DOD systems.

The Navy also argued that come of the CACV contours satisfaction measurements were incorrect. The GAO dissecond with that assertion &

#### PRANK HAVES - EDANKIV SPEAKING

# Santa's on His Way

THAT'S with all the penguins this year?" Status wondered about. The North Dele workship was certainly full of the tuxedeed birds pushing amount earst full of half-finished toys and nudging united earst full of half-finished toys and nudging was penguing to the half-ground the place, but nothine like this work were usually a few of them around the place, but nothine like this

"Dude, didn't you get the memo?" said a young elf skidding to a stop in his Heelys at the jolly old fellow's desk. "They're the best temps we've ever had. They sing, they dance, everybody likes them. Besides,

they work for fish."

#### "But where are the rest of the elves?" asked Santa.

"Out fishing," the elf said. "Hey, big dude, did you finish up that list of who gets what among the technodudes? We're coming close to deadline on that."
"It gets harder every year," Santa grumbled.

"It gets harder every year," Santa grumbled.
"What do you give someone like Bill Gates?"
"That old Microsoft dude?" asked the elf. "Dude,
I read about him — be's gonna spend the next
two years having a retirement party. And isn't he
the guy who said he really wanted a Mac?"

the guy who said he really wanted a Mac?"
"No, that's Jim Allchin, the other Microsoft
du— er, executive who's retiring," said Santa.
"I know, give 'em both copies of that new Vista
thine," said the elf, "That way they won't set shot

while they're standing in line to buy it."
"You're some help," Santa sighted. "Maybe we can give them coupons. Scott McNealy retired as Sun's CEO this year too, but all he asked for is a case of beer for his amateur bockey team and Steve Ballimer's address. Let's see, who cise! Larry Ellison almost bought Novell last year, and now he's moins after Bed Hatt. He really seems to

now he's going after Red Hat. He really seems to want Linux."
"Dude, get him one of those little green Linux laptops that MIT is making for poor kids," the elfsaid. "I heard the first 1,000 finally

arrived from the factory in Shanghai. And who's this Mark Hurd dude? "Last man standing in HP's spyring scandal," said Santa, "mainly because he never read any of the memos so be ddn't have a clae. Let's give him a book on effective management. No wait, make it an audio hook, or

he'll never read it."
"You mean an MP3, big dude," said
the elf, looking over Santa's shoulder
at the list. "And I know these dudes:
Larry Page and Sergey Brin are
the Google dudes who just bought
YouTube from these other dudes.

Chad Hurley, Serve Chen and Jawed Karim."
Now I know what you're getting — a thesianrua, "said Santa." Give them all subscriptions to
Napster. With no many people singing them for
copyright infringement, they're about to replay
that turn all over again, And speaking of tunes,
poor Steve Jobs doesn't own his little animation
usulio Fixar anymore. Now he's just the biggest
stockholder of Disney, to the tune of \$3.7 hillion.

Sony, some readly long extension covols effects of Sony, some readly long extension covols effects on Debod to add to the evoting proper bullets of the bed to add to the evoting to the sony of sony of

organizations that lost personal customer data to break-ins or stolen computers, like the Department of Veterans Affairs, the Penzagon, FedEx, Honeywell, Ernst & Young, Fidelity Investments, TD Ameritrade, ETrade, the Denver election

Commission, Ohio University, UCLA, Boeing . . ."

"Dude, that's a lot of coal!" said

"There's hundreds more," said Santa. "But for all the IT people who worked hard to do right by users and customers, send a better business climate — and a raise. Which reminds me, I still don't understand why these penguins are willing to work just for fish."

"Big dude," the elf said, "this workshop has central heat. Did you everstand barefoot on an ice floe in the middle of winter?"

"Ob ho," Santa laughed. "Happy feet, indeed!" •



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